

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	A04.0220220509153052_01	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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1. Motherhub Summary

Source TBM/Bin at Pivot	1	Source Geological Domain	4
Approx. Source Tunnel Chainage From	484	Approx. Source Tunnel Chainage To	484
Approx. Rings From	205	Approx. Rings To	205
Foaming Agent	TamSoil 287AC	Water Source	Potable (City West Water)
For BSF Holding Bay No:	A04.02	Start of Filling From (Time / date)	23/04/2022
Tonnes Put in Holding Bay No:	8747.48	Finish of Filling (Time / Date)	30/04/2022
Classified Volume (LCM)	4000	Spoil Classification Decision	NPIW Containment
Sampling Ratio (samples per LCM)	1: 129.03	Approx. Bank Cubic Meters (BCM)	.00

2. Agon Spoil Classification Decision

Spoil Categorisation Decision (State Yes or No in each Row)	
NPIW Containment - 2020/476 (SO 9042848)	Yes
NPIW Landfill - 2019/404 (SO 9038429)	Yes
PIW-Category C - 2019/405 (SO 9038560)	No
PIW-Category B - 2019/406 (SO 9038561)	No
PIW-Category A	No

3. Agon Spoil Classification Assessment

3.1 Applicable Samples

Table 3.1 - 1 lists the applicable sample numbers for this spoil. These have been determined from:

- The date / time bay filling was started
- The date / time bay filling was finished
- The ID of the first truck that deposited spoil in the bay and the date / time that it was filled at Pivot
- The ID of the last truck that deposited spoil in the bay and the date / time it was filled at Pivot
- The sample ID that was associated with the first truck – noting that a time window to be associated with each sample is half the time interval between its sampling time and the time of the preceding and the following samples. For example, if samples were collected at 8am, noon and 4 pm, the time window for the noon sample is between 10 am and 2 pm. That is this sample “belongs” to all truck loaded in this time window

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Table 3.1 - Applicable Sample ID's

Table 3.1 - 1 Applicable Sample ID's

Applicable Spoil Sample ID's		
SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_OB_20220429_16_13_SS_Duplicate_EUF
SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220424_04_14_SS_Primary_EUF	SX_OB_20220429_16_14_SS_Triplicate_ALS
SX_OB_20220423_08_14_SS_Triplicate_EUF	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
SX_OB_20220423_08_20_SS_Primary_EUF	SX_OB_20220424_08_06_SS_Duplicate_ALS	SX_OB_20220429_19_56_SS_Primary_EUF
SX_OB_20220423_12_11_SS_Primary_ALS	SX_OB_20220424_08_07_SS_Triplicate_EUF	SX_OB_20220429_20_00_SS_Primary_ALS
SX_OB_20220423_16_00_SS_Primary_EUF	SX_OB_20220424_12_10_SS_Primary_EUF	SX_OB_20220430_00_00_SS_Primary_EUF
SX_OB_20220423_16_01_SS_Duplicate_EUF	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS
SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_OB_20220430_03_59_SS_Primary_EUF
SX_OB_20220423_16_04_SS_Primary_ALS	SX_OB_20220425_04_19_SS_Triplicate_EUF	SX_OB_20220430_04_05_SS_Primary_ALS
SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220429_16_11_SS_Primary_EUF	SX_OB_20220430_08_01_SS_Primary_ALS
SX_OB_20220423_20_10_SS_Primary_EUF		
Total Sample Numbers	31	Ratio Acceptable
Primary Sample Numbers	21	Yes
Classified Volume (LCM)	4000 m ³	
Volume: Sample Number Ratio (Samples per LCM)	1: 129.03	

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3.2 Data Quality Compliance with SAQP

Table 3.2-1 evaluates the compliance of the data quality for this spoil – by reference to the criteria in the SAQP (Yes / No).

Table 3.2 - 1 Evaluation of Quality of Data for this Spoil

DQI	Field Consideration	Laboratory Consideration	Overall Data Quality Acceptability
Precision	Yes	Yes	Yes
Accuracy	Yes	Yes	Yes
Representativeness	Yes	Yes	Yes
Completeness	Yes	Yes	Yes
Comparability	Yes	Yes	Yes

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3.3 Selection of the Spoil Sample Testing Regime

Table 3.3 - 1 Selection of the Spoil Sample Testing Regime

	(State Yes or No in each Row)
<p>A. Is testing all spoil samples taken required for spoil in this Holding Bay, because prior to this Holding Bay, less than 10 Holding Bays of spoil have been tested from this Domain</p> <p>If the answer is Yes, go to E. If the answer is No, go to B.</p>	No
<p>B. If the answer to A is No (i.e., 10 or more Holding Bays of spoil have been tested from this Domain), do trends in the maximum data values from the previous 10 bays indicate that results are trending at <75% of the containment criteria?</p> <p>If the answer is Yes, go to C. If the answer is No, go to D.</p>	Yes
<p>C. If the answer to B is Yes, then was testing of spoil for this Holding Bay reduced to two primary samples per bay plus QC samples (Minimum Testing Regime) as allowed by the SAQP (See SAQP Section 6.2.7)?</p>	No
<p>D. If the answer to B is No, then was the default testing regime implemented for all samples collected for the spoil in this Holding Bay (as required by the SAQP)?</p>	NA
<p>E. Based on the answers to Questions A to D above, was the default testing regime (as defined in the SAQP) applied to the spoil in this Holding Bay?</p>	Yes – See section 4
<p>F. Based on the answers to Questions A to D above, was the Minimum testing Regime (as defined in the SAQP) applied to the spoil in this Holding Bay?</p>	No

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3.4 Spoil Compliance with SAQP Criteria for Containment Cell

Table 3.4 - 1 Spoil Compliance with SAQP Criteria for Containment Cell

Need for IWRG 621.1 or 655.1 Testing	
A. Is Spoil in this Holding Bay from a Zone of Exception or Anomalous and required testing for IWRG 621.1?	No
B. Is IWRG 621.1 testing required for spoil in this Holding Bay, because prior to this Holding Bay, less than 10 Holding Bays of spoil have been tested from this Domain?	No
C. Is IWRG 621.1 testing required for spoil in this Holding Bay, because the moving 95% UCL values for the previous 10 consecutive Holding Bays of spoil from this Domain are not below TCO?	Yes
D. Is testing pursuant to IWRG 655.1 required for spoil in this Holding Bay, because the spoil comes from Exception Zone 3 (See SAQP Section 5.4)?	No
E. Has spoil testing for IWRG 621.1 Parameters been triggered by results of spoil water tests for previous Holding Bays of spoil from this geological domain?	No
Outcome from IWRG 621.1 testing (if needed)	
F. If Yes to one or more Questions A, B, C or E, (and not NOC< applicable background concentrations) then do test results for IWRG 621.1 (see Table 3.4-2) prohibit NPIW Containment as a spoil Classification Outcome? If no to all of Questions A, B, C and E, then respond NA to this question.	No
Outcome from IWRG 655.1 testing (if needed)	
G. If Yes to Questions D, then do test results for IWRG 655.1 (see Table 3.4-3) permit NPIW Containment as a spoil Classification Outcome? If no to Question D, respond NA to this question	NA
Outcome from PFAS Testing	
H. Do test results for PFAS (see Table 3.4-4 below) permit NPIW Containment as a spoil Classification Outcome?	Yes
<i>If Yes to either or both of Question E or F, then Spoil is Not Suitable for Containment; Go to Section 3.5. Otherwise, it is Suitable for Containment</i>	
Notes:	
<ol style="list-style-type: none"> 1. Criteria taken from EPA Grandfathered Classifications for TBM Spoil (2020/476 (SO 9042848)), and from the EPA approved EMP for Hi Quality's Containment Cell 	

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Table 3.4 - 2 IWRG 621.1 Parameter Concentration Statistics & Spoil Suitability for Containment

IWRG 621.1 Exceedance Test Results												
Chemical	Unit	LOR	No. of samples	No. of primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW Containment	Comment
Arsenic	mg/kg	2	31*	21	1: 129.03	31	20	56.58	127.4	540	20	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Copper	mg/kg	5	31*	21	1: 129.03	31	47	68.58	73.76	130	100	NPIW-Containment
Nickel	mg/kg	5	31*	21	1: 129.03	31	142	185.8	194.9	260	60	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Fluoride	mg/kg	100	31*	21	1: 129.03	24	<100	263	N/A	1700	450	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)

“*” - Ratio used for categorisation of spoil is total samples to LCM due to spoil not being from a zone of exception. (See Section 4)

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Table 3.4 – 3 IWRG 655.1 (WASS) Parameter Concentration Statistics & Spoil Suitability for Containment

IWRG 655.1 Test Results											
Chemical	Unit	LOR	No. of primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW Containment	Comment
pHF	pH									5	
pHFox	pH									5	
Delta pH										2	
%S	%									0.03%	
Mol H+ /tonne	Mol/tonne									18	

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Table 3.4 - 4 PFAS Parameter Concentrations & Spoil Suitability for Containment

PFAS Test Results											
Chemical	Unit	LOR	No. of Samples	No. of primary samples	No > LOR	Min	Mean	95% UCL on Mean	Max	Upper Limiting Criteria for NPIW Containment	Spoil Category for PFAS
Total PFAS Concentrations											
Total PFOS	ug/kg	5	31*	21	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFOA	ug/kg	5	31*	21	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFHxS	ug/kg	5	31*	21	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
ASLP (pH= 5) PFAS Concentrations											
PFOA	ug/L	0.01	31*	21	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	31*	21	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment
ASLP (pH= 7) PFAS Concentrations											
PFOA	ug/L	0.01	31*	21	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	31*	21	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment

“*” - Ratio used for categorisation of spoil is total samples to LCM due to spoil not being from a zone of exception. (See Section 4)

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3.5 Waste Classification for Spoil Not Suitable for Containment Cell

This Section 3.5 and the Tables 3.5-1 to 3.5-3 only apply if the spoil is classified in Section 3.4 as not suitable for the Containment Cell. If the spoil is classified in Section 3.4 as not suitable for the Containment Cell, then Tables 3.5-1 and 3.5-2 contain no data and no assessment.

Table 3.5 - 1 below contains the statistics for IWRG 621.1 Parameter concentrations, and Agon's assessment of their implications for the spoil waste category

Table 3.5 - 2 below contains the statistics for IWRG 655.1 Parameter concentrations, and Agon's assessment of their implications for the spoil waste category

Table 3.5 - 3 below contains the statistics for PFAS concentration, and Agon's assessment of their implications for the spoil waste category

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Table 3.5 - 1 IWRG 621.1 Parameter Concentration Statistics & Waste Classifications

IWRG 621.1 Exceedance Test Results													
Chemical	Unit	LOR	No. of primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW	Limiting Criteria for Cat C	Limiting Criteria for Cat B	Comment
Arsenic	mg/kg												
Copper	mg/kg												
Chromium (Hexavalent)	mg/kg												
Nickel	mg/kg												
Fluoride	mg/kg												

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Table 3.5 – 2 IWRG 655.1 (WASS) Parameter Concentration Statistics & Waste Classification

IWRG 655.1 Test Results											
Chemical	Unit	LOR	No. of primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW Containment	Comment
pHF	pH									5	
pHFox	pH									5	
Delta pH										2	
%S	%									0.03%	
Mol H+ /tonne	Mol/tonne									18	

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Table 3.5 - 3 PFAS Parameter Concentrations and Waste Classifications

PFAS Test Results													
Chemical	Unit	LOR	No. of primary samples	No > LOR	Min	Mean	95% UCL on Mean	Max	Upper Limiting Criteria for NPIW Containment	Upper Limiting Criteria for NPIW Landfill	Upper Limiting Criteria for PIW Cat C	Upper Limiting Criteria for PIW Cat B	Spoil Category for PFAS
Total PFAS Concentrations													
Total PFOS	ug/kg												
Total PFOA	ug/kg												
Total PFHxS	ug/kg												
ASLP (pH= 5) PFAS Concentrations													
PFOA	ug/L												
PFOS+PFHxS	ug/L												
ASLP (pH= 7) PFAS Concentrations													
PFOA	ug/L												
PFOS+PFHxS	ug/L												

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4. Comments and Limitations

Comments and Limitations	
1.	<p>Naturally Occurring Chemicals listed in IWRG 621.1 that are within the Background range despite being reported at concentrations that would otherwise categorise the material as PIW:</p> <ol style="list-style-type: none"> 1. Technical discussion around the naturally occurring metal concentrations found in soils beneath the WGTP is detailed in <i>Golder (2017b) – Technical Report B, Appendix E – Environmental characterisation of spoil (natural soil and rock)</i>. The report indicates that elevated metals (including arsenic, nickel, copper, chromium (CrVI), zinc and mercury) were considered to be associated with natural enrichment instead of anthropogenic contamination. <ol style="list-style-type: none"> a. Arsenic – <i>Golder (2017b) – Technical Report B, Appendix E</i> section 6.2 <i>Arsenic enrichment in the residual soil of the upper Older Volcanics (Tvo1)</i> found that while the soil of the upper Older Volcanics sub-unit contains arsenic, the arsenic is not characteristic of the wider sub unit (i.e the rock) or the lower sub-unit (soil or rock). The concentration of arsenic therefore appears to be related to the chemical and biological weather of the unit over time. This is further supported by: <ol style="list-style-type: none"> i. The residual soil of the sub-unit being characterised by iron-oxide staining and containing goethite. Goethite is an iron oxyhydroxide mineral, which can contain elevated concentrations of arsenic. <p>Golder therefore concluded that based on the broad vertical distribution of arsenic and the presence of arsenic throughout the greater project area, arsenic results in Upper Older Volcanics soil are not likely to be associated with anthropogenic contamination.</p> b. Nickel – <i>Golder (2017b) – Technical Report B, Appendix E</i> section 6.3 <i>Nickel enrichment within the upper Older Volcanics</i> found that <ol style="list-style-type: none"> i. Nickel is known to be enriched within olivine and pyroxene basalt minerals, leading to nickel enrichment of soils weathered from basalt (Martini and Chesworth, 2013). ii. The reported mean nickel concentrations within the Older Volcanics (Tvo) were comparable to results reported within soils derived from basalt in Auckland and basalt rock of Finland (ARC, 2001; Koljonen, 1992), Older Volcanics observed in the Melbourne Metro Project (Golder, 1026a) and Newer Volcanics basalt of the Westenra Plains (Birch, 2003). iii. Enriched nickel concentrations corresponded with enriched cobalt (all units) and iron (except tertiary volcanics (Tvo2) soil) indicating that the nickel is likely associated with geochemical enrichment rather than added contamination.

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	<p style="margin-left: 40px;">iv. Enriched nickel concentrations also corresponded with enriched copper (Two soil and rock) and zinc (all units) indicating that the nickel is likely associated with geochemical enrichment rather than added contamination. Golder therefore concluded that the nickel is likely associated with geochemical enrichment rather than added contamination.</p> <p>The Golder study found that based on review of the depth, site history and the geochemical association of elements, the reported elevated concentrations of arsenic and nickel are considered representative of geogenic conditions and are not expected to be associated with contamination.</p> <p>2. Previous reviews of the presence of Fluoride in soil data outlined on the SAQP (Rev 5) were undertaken by AJJV (2019). The AJJV review of the consolidated data set identified:</p> <p style="margin-left: 40px;">Samples which reported elevated fluoride concentrations were found to be within the range the ambient background from the parent or similar material in the Victorian Soil Database:</p> <ul style="list-style-type: none"> i. Newer Volcanics Group – Maximum 820 mg/kg ii. Older Volcanics – Maximum 600 mg/kg iii. Sub-Basaltic Alluvium – Maximum 240 mg/kg <p style="margin-left: 40px;">In addition, the 95% UCLs calculated for Newer Volcanics Group and Older Volcanics, was 322.7 mg/kg and 225.1 mg/kg respectively, both of these values are below the 450mg/kg upper limit for spoil to be disposed of to the containment cell.</p> <p>A review of the Agon data for spoil reported in this data set shows:</p> <ul style="list-style-type: none"> • A similar ratio of test results > LOR compared to the overall data set; • If a ½ LOR is substituted for results reported as <LOR (of 100mg/kg), then like the AJJV 95% UCL, the calculation is less than the 450mg/kg upper limit for spoil to be disposed of to the containment cell. <p>The results also show that there are no synthetic compounds reported above the laboratory LOR, another indication that anthropogenic contamination is not present.</p>
2.	Default testing regime was implemented for all samples collected for the spoil in this holding bay as a determination has not been made regarding the reduced sampling scope.
3.	Test result outcomes can lead to two classification possibilities; however, the classification decision follows the preference of the waste management hierarchy.
4.	Spoil is not from a “Zone of Exception”. Zone of Exception applies a sampling ratio of only Primary Samples to LCM to categorise spoil as per the SAQP revision 5. Sample to categorised volume ratio in zones of exception is to be as per IWRG702 with 1 primary spoil sample categorising a maximum 250 m3 of spoil.
5.	Loose Cubic metres (LCM) to mass (tonnes) conversion ratio used is 1 LCM:1.6 tonnes

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6.	This report has been prepared in accordance with industry recognised standards and procedures current at the time of the work. The report presents the results of the assessment based on the quoted scope of works (unless otherwise agreed in writing) for the specific purposes of the engagement by the Client. No warranties expressed or implied, are offered to any third parties and no liability will be accepted for use of this report by third parties.
7.	All information provided by third parties has been assumed to be correct and complete. Agon does not assume any liability for misrepresentation of information by third parties or for matters not visible, accessible or present on the subject site.
8.	Opinions and judgements expressed herein are based on Agon's understanding of current regulatory standards and should not be construed as legal opinions. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties other than those listed above.
9.	This report should be read in full.

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5. Attachments

ATTACHMENT A: TABULATED RESULTS

ATTACHMENT B: 95% UCL AVE CALCULATIONS

ATTACHMENT C: LABORATORY CERTIFICATES

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ATTACHMENT A: TABULATED RESULTS

EQL
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
EPA Victoria IWRG621 Category B Leached Upper Limits
EPA Victoria IWRG621 Category B Upper Limits
EPA Victoria IWRG621 Category C Leached Upper Limits
EPA Victoria IWRG621 Category C Upper Limits
EPA Victoria IWRG621 Fill Upper Limits

Location Code	Field ID	Sample Code	Date	Lab Report Number	Lab Name	Sample Type
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	EM2207398001	23/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	EM2207398029	23/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	EM2207398002	23/04/2022	EM2207398	ALSE-Melbourne	Field_D
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	EM2207398030	23/04/2022	EM2207398	ALSE-Melbourne	Field_D
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	M22-Ap0050628	23/04/2022	882647	MGT	Interlab_D
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	M22-Ap0050655	23/04/2022	882647	MGT	Interlab_D
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	M22-Ap0050680	23/04/2022	882647	MGT	Interlab_D
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	M22-Ap0050629	23/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	M22-Ap0050656	23/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	M22-Ap0050681	23/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	EM2207398005	23/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	EM2207398031	23/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	M22-Ap0050631	23/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	M22-Ap0050658	23/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	M22-Ap0050683	23/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	M22-Ap0050632	23/04/2022	882647	MGT	Field_D
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	M22-Ap0050659	23/04/2022	882647	MGT	Field_D
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	M22-Ap0050684	23/04/2022	882647	MGT	Field_D
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	EM2207398006	23/04/2022	EM2207398	ALSE-Melbourne	Interlab_D
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	EM2207398032	23/04/2022	EM2207398	ALSE-Melbourne	Interlab_D
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	EM2207398007	23/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	EM2207398033	23/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	EM2207398008	23/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	EM2207398034	23/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	M22-Ap0050635	23/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	M22-Ap0050660	23/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	M22-Ap0050685	23/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	EM2207398009	24/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	EM2207398035	24/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	M22-Ap0050637	24/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	M22-Ap0050662	24/04/2022	882647	MGT	Normal

A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	M22-Ap0050687	24/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	EM2207398011	24/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	EM2207398037	24/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	EM2207398012	24/04/2022	EM2207398	ALSE-Melbourne	Field_D
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	EM2207398038	24/04/2022	EM2207398	ALSE-Melbourne	Field_D
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	M22-Ap0050638	24/04/2022	882647	MGT	Interlab_D
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	M22-Ap0050663	24/04/2022	882647	MGT	Interlab_D
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	M22-Ap0050688	24/04/2022	882647	MGT	Interlab_D
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	M22-Ap0050640	24/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	M22-Ap0050665	24/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	M22-Ap0050690	24/04/2022	882647	MGT	Normal
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	EM2207398019	25/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	EM2207398045	25/04/2022	EM2207398	ALSE-Melbourne	Normal
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	EM2207398020	25/04/2022	EM2207398	ALSE-Melbourne	Field_D
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	EM2207398046	25/04/2022	EM2207398	ALSE-Melbourne	Field_D
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	M22-Ap0050646	25/04/2022	882647	MGT	Interlab_D
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	M22-Ap0050671	25/04/2022	882647	MGT	Interlab_D
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	M22-Ap0050696	25/04/2022	882647	MGT	Interlab_D
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	M22-My0000813	29/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	M22-My0000822	29/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	M22-My0000829	29/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	M22-My0000814	29/04/2022	884110	MGT	Field_D
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	M22-My0000823	29/04/2022	884110	MGT	Field_D
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	M22-My0000830	29/04/2022	884110	MGT	Field_D
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	EM2207719006	29/04/2022	EM2207719	ALSE-Melbourne	Interlab_D
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	EM2207719014	29/04/2022	EM2207719	ALSE-Melbourne	Interlab_D
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	EM2207719007	29/04/2022	EM2207719	ALSE-Melbourne	Normal
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	EM2207719015	29/04/2022	EM2207719	ALSE-Melbourne	Normal
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	M22-My0000817	29/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	M22-My0000824	29/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	M22-My0000831	29/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	EM2207719008	29/04/2022	EM2207719	ALSE-Melbourne	Normal
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	EM2207719016	29/04/2022	EM2207719	ALSE-Melbourne	Normal
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	M22-My0000818	30/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	M22-My0000825	30/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	M22-My0000832	30/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	EM2207719009	30/04/2022	EM2207719	ALSE-Melbourne	Normal
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	EM2207719017	30/04/2022	EM2207719	ALSE-Melbourne	Normal
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	M22-My0000819	30/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	M22-My0000826	30/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	M22-My0000833	30/04/2022	884110	MGT	Normal
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	EM2207719010	30/04/2022	EM2207719	ALSE-Melbourne	Normal
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	EM2207719018	30/04/2022	EM2207719	ALSE-Melbourne	Normal

A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	EM2207807003	30/04/2022	EM2207807	ALSE-Melbourne	Normal
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	EM2207807030	30/04/2022	EM2207807	ALSE-Melbourne	Normal

	Metals								
	Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	5	5	1	5	0.1	5	5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold									
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold									
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold									
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold									
EPA Victoria IWRG621 Category B Leached Upper Limits									
EPA Victoria IWRG621 Category B Upper Limits	2,000	400	20,000		2,000	6,000	300	4,000	12,000
EPA Victoria IWRG621 Category C Leached Upper Limits									
EPA Victoria IWRG621 Category C Upper Limits	500	100	5,000		500	1,500	75	1,000	3,000
EPA Victoria IWRG621 Fill Upper Limits	20	3	100		1	300	1	40	60

Location Code	Field ID	Parent Sample	Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		34	<1	49	87	<1.0	<5	<0.1	<5	142
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS										
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	EM2207398001	27	<1	95	83	<1.0	<5	<0.1	<5	177
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	EM2207398029									
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	EM2207398001	54	<0.4	79	150	<1	6.5	<0.1	<5	200
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	EM2207398001									
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	EM2207398029									
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF		23	<0.4	71	130	<1	<5	<0.1	<5	170
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF										
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF										
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS		41	1	57	103	<1.0	<5	<0.1	<5	161
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS										
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		57	<0.4	73	120	<1	5.0	<0.1	<5	170
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	M22-Ap0050631	62	<0.4	59	150	<1	5.1	<0.1	<5	170
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	M22-Ap0050658									
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	M22-Ap0050683									
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	M22-Ap0050631	42	<1	59	121	<1.0	<5	<0.1	<5	179
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	M22-Ap0050683									
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS		39	<1	54	98	<1.0	<5	<0.1	<5	160
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS										
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS		32	<1	54	102	<1.0	<5	<0.1	<5	164
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS										
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF		39	<0.4	68	170	<1	<5	<0.1	<5	200
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF										
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF										
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS		38	<1	54	107	<1.0	<5	<0.1	<5	154
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS										
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF		57	<0.4	76	180	<1	6.8	<0.1	<5	200
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF										

		Metals								
		Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF									
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	29	<1	47	91	<1.0	<5	<0.1	<5	145
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS									
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	41	<1	58	107	<1.0	<5	<0.1	<5	159
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS									
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	53	<0.4	130	160	<1	5.7	<0.1	<5	210
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF									
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF									
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	58	<0.4	80	140	<1	5.2	<0.1	<5	210
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF									
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF									
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	34	<1	59	106	<1.0	<5	<0.1	<5	169
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS									
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	36	<1	60	107	<1.0	<5	<0.1	<5	167
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS									
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	45	<0.4	67	140	<1	5.2	<0.1	<5	170
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF									
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF									
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	55	<0.4	74	160	<1	6.5	<0.1	<5	240
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF									
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF									
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	59	<0.4	73	150	<1	7.4	<0.1	<5	230
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF									
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF									
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	38	<1	58	98	<1.0	<5	<0.1	<5	175
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS									
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	40	<1	51	86	<1.0	<5	<0.1	<5	167
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS									
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	540	<0.4	99	130	<1	8.5	<0.1	5.8	220
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF									
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF									
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	33	1	66	116	<1.0	<5	<0.1	<5	198
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS									
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	34	<0.4	86	180	<1	<5	<0.1	<5	260
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF									
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF									
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	28	1	65	107	<1.0	<5	<0.1	<5	177
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS									
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	43	<0.4	75	170	<1	5.6	<0.1	<5	250
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF									
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF									
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	20	<1	64	122	<1.0	<5	<0.1	<5	178
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS									

		Metals								
		Arsenic	Cadmium	Copper	Chromium (II+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	23	<1	66	113	<1.0	<5	<0.1	<5	187
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS									

	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	2	10	5	0.5	1	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits	200	720		140,000	400						
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits	50	180	500	35,000	100						
EPA Victoria IWRG621 Fill Upper Limits	10	10	50	200	20						

Location Code	Field ID	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<5	<2	<10	83	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<5	<2	<10	105	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<2	<2	<10	150			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<2	<2	<10	140			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<5	<2	<10	88	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<2	<2	<10	120			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<2	<2	<10	120			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<5	<2	<10	111	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<5	<2	<10	96	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<5	<2	<10	100	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<2	<2	<10	130			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<5	<2	<10	94	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<2	<2	<10	150			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<5	<2	<10	77	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<5	<2	<10	103	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<2	<2	<10	170			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<2	<2	<10	160			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<5	<2	<10	98	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<5	<2	<10	96	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<2	<2	<10	140			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<2	<2	<10	160			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<2	<2	<10	160			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<5	<2	<10	118	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<5	<2	<10	94	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<2	<2	<10	160			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<5	<2	<10	127	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<2	<2	<10	160			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<5	<2	<10	114	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<2	<2	<10	170			<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<5	<2	<10	116	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<5	<2	<10	115	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	PAH										
	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits			20								
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits			5								
EPA Victoria IWRG621 Fill Upper Limits			1								

Location Code	Field ID											
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		PAH										
		Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		PAH										
		Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	BTEX										
	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.2	0.3	20
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits				400	16						
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits				100	4						
EPA Victoria IWRG621 Fill Upper Limits				20	1						

Location Code	Field ID	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		BTEX										
		Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		BTEX										
		Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	TRH						TPH				
	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14	C15-C28	C29-C36	+C10-C36 (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	20	50	50	100	100	50	20	20	50	50	50
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits							2,600				40,000
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits							650				10,000
EPA Victoria IWRG621 Fill Upper Limits							100				1,000

Location Code	Field ID											
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		TRH					TPH					
		C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14	C15-C28	C29-C36	+C10-C36 (Sum of total)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		TRH						TPH				
		C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14	C15-C28	C29-C36	+C10-C36 (Sum of total)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits			4.8				50				
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits			1.2				50				
EPA Victoria IWRG621 Fill Upper Limits											

Location Code	Field ID	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

Organochlorine Pesticides											
	Endrin aldehyde	Endosulfan sulphate	Chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.1	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits			16				4.8				
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits			4				1.2				
EPA Victoria IWRG621 Fill Upper Limits											

Location Code	Field ID	Endrin aldehyde	Endosulfan sulphate	Chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		Organochlorine Pesticides										
		Endrin aldehyde	Endosulfan sulphate	chlordan	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		Organochlorine Pesticides										
		Endrin aldehyde	Endosulfan sulphate	Chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	g-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.5	0.1	0.03	0.5	0.5	1	1	0.5	1
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits					50						
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits					10						
EPA Victoria IWRG621 Fill Upper Limits				1							

Location Code	Field ID	g-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		g-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		γ-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPA/Vic	Other organochlorine pesticides EPA/Vic	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	Phenols										
	Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVIC	Phenols (non-halogenated) EPAVIC	2,4-Dimethylphenol	2-Methylphenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	1	0.05	5	10	0.03	0.5	20	1	20	0.5	0.2
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits								320	2,200		
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits								10	560		
EPA Victoria IWRG621 Fill Upper Limits								1	60		

Location Code	Field ID											
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		Phenols										
		Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVIC	Phenols (non-halogenated) EPAVIC	2,4-Dimethylphenol	2-Methylphenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		Phenols										
		Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVIC	Phenols (non-halogenated) EPAVIC	2,4-Dimethylphenol	2-Methylphenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	2-Nitrophenol mg/kg	2,4-Dinitrophenol mg/kg	3&4-Methylphenol (m&p-cresol) mg/kg	4-Nitrophenol mg/kg	Dinoseb mg/kg	Phenol mg/kg	Phenols (Total Halogenated) mg/kg	Phenols (Total Non Halogenated) mg/kg	10:2 Fluorotelomer sulfonic acid (10:2 FTS) mg/L	mg/kg	8:2 Fluorotelomer sulfonic mg/L
EQL	1	5	0.4	5	20	0.5	1	20	0.00001	0.005	0.00001
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits											
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits											
EPA Victoria IWRG621 Fill Upper Limits											

Location Code	Field ID	2-Nitrophenol mg/kg	2,4-Dinitrophenol mg/kg	3&4-Methylphenol (m&p-cresol) mg/kg	4-Nitrophenol mg/kg	Dinoseb mg/kg	Phenol mg/kg	Phenols (Total Halogenated) mg/kg	Phenols (Total Non Halogenated) mg/kg	10:2 Fluorotelomer sulfonic acid (10:2 FTS) mg/L	mg/kg	8:2 Fluorotelomer sulfonic mg/L
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF									<0.00001		<0.00001

		2-Nitrophenol	2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS									<0.00005		<0.00005
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF									<0.00001		<0.00001
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS									<0.00005		<0.00005

		2-Nitrophenol	2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS									<0.00005		<0.00005

	acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid (6:2 FTS)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NETFOSA)		N-ethyl-perfluorooctanesulfonamid oacetic acid (NETFO5AA)		N-ethylperfluorooctanesulfon amidoethanol (NETFO5E)	
	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL	0.005	0.00005	0.01	0.00001	0.005	0.00005	0.005	0.00005	0.00002	0.01	0.00005	0.005
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold												
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold												
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold												
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold												
EPA Victoria IWRG621 Category B Leached Upper Limits												
EPA Victoria IWRG621 Category B Upper Limits												
EPA Victoria IWRG621 Category C Leached Upper Limits												
EPA Victoria IWRG621 Category C Upper Limits												
EPA Victoria IWRG621 Fill Upper Limits												

Location Code	Field ID	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00002		<0.00005	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00002		<0.00005	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00002		<0.00005	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00002		<0.00005	
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00002		<0.00005	
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00002		<0.00005	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00002		<0.00005	
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005	

		acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid (6:2 FTS)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NETFOSA)		N-ethyl-perfluorooctanesulfonamid oacetic acid (NETFOSAA)		N-ethylperfluorooctanesulfon amidoethanol (NETFOSE)	
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		

		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)		N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)		Perfluorobutanoic acid (PFBA)		Perfluorobutane sulfonic acid (PFBS)		Perfluorodecanoic acid
		mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002

	PFOS/PFOA										
	(PFDA)	Perfluorododecanoic acid (PFDoDA)		Perfluorodecanesulfonic acid (PFDS)		Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane sulfonic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)	
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits											
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits											
EPA Victoria IWRG621 Fill Upper Limits											

Location Code	Field ID											
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	

		PFOS/PFOA											
		Perfluorododecanoic acid (PFDoDA)		Perfluorododecanesulfonic acid (PFDS)		Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane sulfonic acid (PFHPS)		Perfluorohexanoic acid (PFHxA)			
(PFDA)		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		

	Perfluorononanoic acid (PFNA)		Perfluorooctanesulfonic acid (PFOS)(trace)		Perfluorooctanoic acid (PFOA)		Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic
	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00002	0.005	0.00001	0.005	0.00001
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold					0						
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold					0.00056						
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold					0.0056						
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold					0.056						
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits											
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits											
EPA Victoria IWRG621 Fill Upper Limits											

Location Code	Field ID											
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.00002				<0.00001		<0.00002		<0.00002		<0.00002
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.00002				<0.00001		<0.00002		<0.00002		<0.00002
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.00002				<0.00001		<0.00002		<0.00002		<0.00002
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.00002				<0.00001		<0.00002		<0.00002		<0.00002
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.00002				<0.00001		<0.00002		<0.00002		<0.00002
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.00002				<0.00001		<0.00002		<0.00002		<0.00002
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.00002				<0.00001		<0.00002		<0.00002		<0.00002
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001

		Perfluorononanoic acid (PFNA)		Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid (PFOA)		Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic
		mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.00002				<0.00001		<0.00005		<0.00002		<0.00002

	acid (PFPeS)	Perfluoropropanesulfonic acid (PFPS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid (PFTrDA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)	
	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
EQL	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits											
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits											
EPA Victoria IWRG621 Fill Upper Limits											

Location Code	Field ID											
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS			<0.00005		<0.00002		<0.00002		<0.00001		
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.0050		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS			<0.00005		<0.00002		<0.00002		<0.00001		
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.005	<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.005	<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.0050		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS			<0.00005		<0.00002		<0.00002		<0.00001		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005	<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.005	<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.0050		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS			<0.00005		<0.00002		<0.00002		<0.00001		
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.0050		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS			<0.00005		<0.00002		<0.00002		<0.00001		
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.0050		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS			<0.00005		<0.00002		<0.00002		<0.00001		
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.005	<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.0050		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS			<0.00005		<0.00002		<0.00002		<0.00001		
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.005	<0.005		<0.005		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001		

		acid (PFPeS)		Perfluoropropanesulfonic acid (PFPrS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid (PFTrDA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)	
		mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.0050				<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS					<0.00005		<0.00002		<0.00002		<0.00001	

	Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*		Sum of PFAS		1,1-dichloroethane
	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	
EQL	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.05	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold			0								
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold			0.00007								
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold			0.0007								
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold			0.007								
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits											
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits											
EPA Victoria IWRG621 Fill Upper Limits											

Location Code	Field ID	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.00001		<0.00001						<0.00001	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.00001		<0.00001						<0.00001	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.05
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.05
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.00001		<0.00001						<0.00001	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.05
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.05
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.00001		<0.00001						<0.00001	
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.00001		<0.00001						<0.00001	
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.00001		<0.00001						<0.00001	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.05
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.00001		<0.00001						<0.00001	
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.05
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001	

		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*		Sum of PFAS	Sum of PFAS	1,1-dichloroethane
		mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.00001		<0.00001						<0.00001		
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.00001		<0.00001						<0.00001		
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.00001		<0.00001						<0.00001		
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.00001		<0.00001						<0.00001		
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.00001		<0.00001						<0.00010		
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<0.00001		<0.00001						<0.00010		
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<0.00001		<0.00001						<0.00010		
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<0.00001		<0.00001						<0.00010		
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.0001		
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<0.00001		<0.00001						<0.00010		

		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHxS + PFOS + PFOA)†		Sum of PFAS	Sum of PFAS	1,1-dichloroethane
		mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500	
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.00001		<0.00001						<0.00010		

	1,1-dichloroethene mg/kg	1,2,3-trichloropropane mg/kg	1,2-dichloroethane mg/kg	1,2-dichloropropane mg/kg	1,3-dichloropropane mg/kg	Bromochloromethane mg/kg	1,1,1,2-tetrachloroethane mg/kg	Bromodichloromethane mg/kg	1,1,1-trichloroethane mg/kg	Chloroform mg/kg	1,1,1,2-tetrachloroethane mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits											
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits											
EPA Victoria IWRG621 Fill Upper Limits											

Location Code	Field ID	1,1-dichloroethene mg/kg	1,2,3-trichloropropane mg/kg	1,2-dichloroethane mg/kg	1,2-dichloropropane mg/kg	1,3-dichloropropane mg/kg	Bromochloromethane mg/kg	1,1,1,2-tetrachloroethane mg/kg	Bromodichloromethane mg/kg	1,1,1-trichloroethane mg/kg	Chloroform mg/kg	1,1,1,2-tetrachloroethane mg/kg
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane	1,1,1-trichloroethane	Chloroform	1,1,1,2-tetrachloroethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane	1,1,1-trichloroethane	Chloroform	1,1,2,2-tetrachloroethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.50		<0.50				<0.50		<0.50	<0.50	<0.50
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	Chlorinated Hydrocarbons										
	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVic	Trichloroethene	Chlorinated hydrocarbons EPAVic	cis-1,2-dichloroethene	1,1,2-trichloroethane	trans-1,3-dichloropropene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits					11	50					
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits					2.8	10					
EPA Victoria IWRG621 Fill Upper Limits								1			

Location Code	Field ID											
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF											
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS											
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											

		Chlorinated Hydrocarbons										
		Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVic	Trichloroethene	Chlorinated hydrocarbons EPAVic	cis-1,2-dichloroethene	1,1,2-trichloroethane	trans-1,3-dichloropropene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF											
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF											
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF											
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF											
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF											
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF											
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS											

		Chlorinated Hydrocarbons										
		Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVc	Trichloroethene	Chlorinated hydrocarbons EPAVc	cis-1,2-dichloroethene	1,1,2-trichloroethane	trans-1,3-dichloropropene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	NA		Moisture Content	Arochlor 1232
								Sum of WA DWER PFAS (n=10)*			
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05		1	0.1
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits	4.8										
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits	1.2										
EPA Victoria IWRG621 Fill Upper Limits											

Location Code	Field ID										
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	28.4
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS									<0.01	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.4
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS									<0.01	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF								<0.05		
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF								<0.05		
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF								<0.05		
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF								<0.05		
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.6
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS									<0.01	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF								<0.05		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF								<0.05		
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF								<0.05		
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF								<0.05		
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.4
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS									<0.01	
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.0
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS									<0.01	
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	28.3
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS									<0.01	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF								<0.05		
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF								<0.05		
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.7
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS									<0.01	
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF								<0.05		

									NA			
		Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*		Moisture Content	Arochlor 1232
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.7	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS									<0.01		
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.5	
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS									<0.01		
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF								<0.05			
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF								<0.05			
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.5	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS									<0.01		
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.1	
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS									<0.01		
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF								<0.05			
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF								<0.05			
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF								<0.05			
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF								<0.05			
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.6	
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS									<0.05		
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.4	
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS									<0.05		
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.0	
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS									<0.05		
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	28.6	
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS									<0.05		
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF								<0.05			
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.2	
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS									<0.05		

									NA			
		Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*		Moisture Content	Arochlor 1232
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.3	
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS									<0.05		

	PCBs							Inorg			
	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-
EQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits											
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits											
EPA Victoria IWRG621 Fill Upper Limits							2				

Location Code	Field ID											
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS							<0.1	1.6	5.2	8.5	5.0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS									9.1		
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS							<0.1	1.4	5.2	8.9	5.0
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS									9.1		
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF									5.1		4.9
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF									8.8		5.9
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF									5.1		4.9
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF									9.2		5.9
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS							<0.1	1.4	5.2	8.9	5.0
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS									9.1		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF									5.5		4.9
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF									9.2		5.9
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF									5.1		4.9
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF									9.1		5.9
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS							<0.1	1.4	5.2	9.1	5.0
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS									9.3		
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS							<0.1	1.5	5.2	9.3	5.0
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS									9.3		
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS							<0.1	1.5	5.2	9.2	5.0
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS									9.4		
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF									5.1		4.9
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF									9.1		5.9
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS							<0.1	1.5	5.2	8.9	5.0
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS									9.2		
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF									5.1		4.9

		PCBs						Inorg				
		Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF									9.0		5.9
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS							<0.1	1.5	5.1	9.4	5.0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS									9.4		
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS							<0.1	1.4	5.1	9.4	5.0
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS									9.5		
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF									5.2		4.9
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF									9.2		5.9
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF									5.1		4.9
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF									9.0		5.9
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS							<0.1	1.5	5.0	9.3	5.0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS									9.5		
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS							<0.1	1.4	5.0	9.1	5.0
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS									9.6		
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF									5.1		4.9
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF									9.3		5.9
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF									5.1		5.0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF									8.8		7.1
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF									5.0		5.0
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF									8.7		7.1
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS							<0.1	1.4	5.1	9.0	5.0
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS									9.1		
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS							<0.1	1.3	5.1	9.1	5.0
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS									9.1		
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF									5.0		5.0
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF									8.7		7.1
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS							<0.1	1.4	5.1	8.9	5.0
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS									8.9		
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF									5.1		5.0
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF									8.8		7.1
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS							<0.1	1.3	5.1	8.9	5.0
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS									8.9		
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF									5.0		5.0
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF									8.8		7.1
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS							<0.1	1.3	5.1	8.9	5.0
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS									9.0		

		PCBs					Inorg					
		Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS							<0.1	1.5	5.2	9.0	5.0
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS									9.3		

	anics				Halogenated Benzenes						
	pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene
	-	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	100	1	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits		40,000		10,000							
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits		10,000		2,500							
EPA Victoria IWRG621 Fill Upper Limits		450		50							

Location Code	Field ID										
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		200		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS										
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		110		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS										
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	7.8	<100	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF										
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF										
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	8.8	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF										
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF										
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS		140		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS										
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	8.1	1,700	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	7.9	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF										
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF										
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		140		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS										
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS		130		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS										
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS		140		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS										
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	8.2	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF										
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF										
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS		120		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS										
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	7.7	<100	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF										

anics		Halogenated Benzenes									
	pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene
	-	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF										
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	130		<5	<0.50	<0.50		<0.50			<0.50
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS										
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	140		<5	<0.50	<0.50		<0.50			<0.50
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS										
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	8.3	130	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF										
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF										
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	8.0	<100	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF										
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF										
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	150		<5	<0.50	<0.50		<0.50			<0.50
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS										
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	130		<5	<0.50	<0.50		<0.50			<0.50
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS										
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	8.4	<100	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF										
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF										
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	8.2	340	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	8.0	430	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF										
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF										
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS		170		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS										
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS		180		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS										
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	8.3	440	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF										
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF										
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS		180		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS										
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	12	420	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF										
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF										
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS		150		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS										
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	8.5	350	30	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF										
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF										
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS		120		<5	<0.50	<0.50		<0.50		<0.50
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS										

anics		Halogenated Benzenes								
pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene
-	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS	170	<5	<0.50	<0.50		<0.50			<0.50
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS									

	Halogenated Hydrocarbons					MAH					
	Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold											
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold											
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold											
EPA Victoria IWRG621 Category B Leached Upper Limits											
EPA Victoria IWRG621 Category B Upper Limits							240				
EPA Victoria IWRG621 Category C Leached Upper Limits											
EPA Victoria IWRG621 Category C Upper Limits							70				
EPA Victoria IWRG621 Fill Upper Limits							7				

Location Code	Field ID										
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS							<0.5		<0.5	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS										
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS							<0.5		<0.5	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS										
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF										
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF										
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF										
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF										
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS							<0.5		<0.5	
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS										
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF										
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF										
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS							<0.5		<0.5	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS										
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS							<0.5		<0.5	
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS										
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS							<0.5		<0.5	
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS										
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF										
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF										
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS							<0.5		<0.5	
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS										
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF										

		Halogenated Hydrocarbons					MAH				
		Iodomethane mg/kg	Bromomethane mg/kg	1,2-dibromoethane mg/kg	Dichlorodifluoromethane mg/kg	Trichlorofluoromethane mg/kg	Total MAH mg/kg	Monocyclic aromatic hydrocarbons EPAVic mg/kg	1,3,5-trimethylbenzene mg/kg	Styrene mg/kg	Isopropylbenzene mg/kg
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF										
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS						<0.5		<0.5		
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS										
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS						<0.5		<0.5		
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS										
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF										
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF										
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF										
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF										
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS						<0.5		<0.5		
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS										
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS						<0.5		<0.5		
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS										
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF										
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF										
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF										
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF										
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS						<0.5		<0.5		
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS										
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS						<0.5		<0.5		
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS										
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF										
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF										
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS						<0.5		<0.5		
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS										
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF										
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF										
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS						<0.5		<0.5		
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS										
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF										
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF										
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS						<0.5		<0.5		
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS										

		Halogenated Hydrocarbons					MAH					
		Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS							<0.5		<0.5		
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS											

	Solvents					SPOCAS
	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
EQL	0.5	0.5	0.5	0.5	0.5	0.1
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold						
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold						
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold						
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold						
EPA Victoria IWRG621 Category B Leached Upper Limits						
EPA Victoria IWRG621 Category B Upper Limits						
EPA Victoria IWRG621 Category C Leached Upper Limits						
EPA Victoria IWRG621 Category C Upper Limits						
EPA Victoria IWRG621 Fill Upper Limits						

Location Code	Field ID						
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS						7.8
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS						
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS						7.8
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS						
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF						
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF						
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF						
A04.02	SX_OB_20220423_08_20_SS_Primary_EUF						
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS						7.8
A04.02	SX_OB_20220423_12_11_SS_Primary_ALS						
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF						
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF						
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF						
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF						
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS						7.9
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS						
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS						7.9
A04.02	SX_OB_20220423_16_04_SS_Primary_ALS						
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS						8.0
A04.02	SX_OB_20220423_20_07_SS_Primary_ALS						
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF						
A04.02	SX_OB_20220423_20_10_SS_Primary_EUF						
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS						7.9
A04.02	SX_OB_20220424_00_14_SS_Primary_ALS						
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF						

		Solvents					SPOCAS
		4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
A04.02	SX_OB_20220424_04_14_SS_Primary_EUF						
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS						8.0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS						
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS						8.1
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS						
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF						
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF						
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF						
A04.02	SX_OB_20220424_12_10_SS_Primary_EUF						
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS						8.0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS						
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS						8.0
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS						
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF						
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF						
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF						
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF						
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF						
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF						
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS						7.6
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS						
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS						7.7
A04.02	SX_OB_20220429_16_18_SS_Primary_ALS						
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF						
A04.02	SX_OB_20220429_19_56_SS_Primary_EUF						
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS						7.6
A04.02	SX_OB_20220429_20_00_SS_Primary_ALS						
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF						
A04.02	SX_OB_20220430_00_00_SS_Primary_EUF						
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS						7.6
A04.02	SX_OB_20220430_00_05_SS_Primary_ALS						
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF						
A04.02	SX_OB_20220430_03_59_SS_Primary_EUF						
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS						7.6
A04.02	SX_OB_20220430_04_05_SS_Primary_ALS						

		Solvents					SPOCAS
		4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS						7.5
A04.02	SX_OB_20220430_08_01_SS_Primary_ALS						

							Arsenic	Cadmium
							mg/kg	mg/kg
EQL							2	0.4

Location Code	Field ID	Date	Lab Report Number	Lab Name	Sample Type	Parent Sample		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	23/04/2022	882647	MGT	Normal		57	<0.4
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	23/04/2022	882647	MGT	Field_D	M22-Ap0050631	62	<0.4
RPD							8	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	23/04/2022	882647	MGT	Normal		57	<0.4
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	23/04/2022	EM2207398	ALSE-Melbourne	Interlab_D	M22-Ap0050631	42	<1
RPD							30	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	23/04/2022	882647	MGT	Normal			
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	23/04/2022	882647	MGT	Field_D	M22-Ap0050658		
RPD								
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	23/04/2022	882647	MGT	Normal			
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	23/04/2022	882647	MGT	Field_D	M22-Ap0050683		
RPD								
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	23/04/2022	882647	MGT	Normal			
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	23/04/2022	EM2207398	ALSE-Melbourne	Interlab_D	M22-Ap0050683		
RPD								
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	23/04/2022	EM2207398	ALSE-Melbourne	Normal		34	<1
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	23/04/2022	EM2207398	ALSE-Melbourne	Field_D	EM2207398001	27	<1
RPD							23	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	23/04/2022	EM2207398	ALSE-Melbourne	Normal		34	<1
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	23/04/2022	882647	MGT	Interlab_D	EM2207398001	54	<0.4
RPD							45	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	23/04/2022	EM2207398	ALSE-Melbourne	Normal		34	<1
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	23/04/2022	882647	MGT	Interlab_D	EM2207398001		
RPD								
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	23/04/2022	EM2207398	ALSE-Melbourne	Normal			
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	23/04/2022	EM2207398	ALSE-Melbourne	Field_D	EM2207398029		
RPD								
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	23/04/2022	EM2207398	ALSE-Melbourne	Normal			
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	23/04/2022	882647	MGT	Interlab_D	EM2207398029		
RPD								
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	24/04/2022	882647	MGT	Normal		41	<0.4
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	24/04/2022	882647	MGT	Field_D	M22-Ap0050641	44	<0.4
RPD							7	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	24/04/2022	882647	MGT	Normal		41	<0.4
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	24/04/2022	EM2207398	ALSE-Melbourne	Interlab_D	M22-Ap0050641	30	<1
RPD							31	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	24/04/2022	882647	MGT	Normal			
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	24/04/2022	882647	MGT	Field_D	M22-Ap0050666		
RPD								
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	24/04/2022	882647	MGT	Normal			

							Arsenic	Cadmium
							mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	24/04/2022	882647	MGT	Field_D	M22-Ap0050691		
RPD								
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	24/04/2022	882647	MGT	Normal			
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	24/04/2022	EM2207398	ALSE-Melbourne	Interlab_D	M22-Ap0050691		
RPD								
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	24/04/2022	EM2207398	ALSE-Melbourne	Normal		29	<1
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	24/04/2022	EM2207398	ALSE-Melbourne	Field_D	EM2207398011	41	<1
RPD								
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	24/04/2022	EM2207398	ALSE-Melbourne	Normal		29	<1
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	24/04/2022	882647	MGT	Interlab_D	EM2207398011	53	<0.4
RPD								
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	24/04/2022	EM2207398	ALSE-Melbourne	Normal		29	<1
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	24/04/2022	882647	MGT	Interlab_D	EM2207398011	59	0
RPD								
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	24/04/2022	EM2207398	ALSE-Melbourne	Normal			
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	24/04/2022	EM2207398	ALSE-Melbourne	Field_D	EM2207398037		
RPD								
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	24/04/2022	EM2207398	ALSE-Melbourne	Normal			
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	24/04/2022	882647	MGT	Interlab_D	EM2207398037		
RPD								
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	25/04/2022	882647	MGT	Normal		36	<0.4
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	25/04/2022	882647	MGT	Field_D	M22-Ap0050650	34	<0.4
RPD								
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	25/04/2022	882647	MGT	Normal		36	<0.4
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Interlab_D	M22-Ap0050650	24	<1
RPD								
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	25/04/2022	882647	MGT	Normal		40	0
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	25/04/2022	882647	MGT	Field_D	M22-Ap0050675		
RPD								
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	25/04/2022	882647	MGT	Normal			
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Interlab_D	M22-Ap0050700		
RPD								
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal		34	<1
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Field_D	EM2207398019	36	<1
RPD								
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal		6	0
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	25/04/2022	882647	MGT	Interlab_D	EM2207398019	34	<1
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	25/04/2022	882647	MGT	Interlab_D	EM2207398019	45	<0.4
RPD								
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal		28	0
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	25/04/2022	882647	MGT	Interlab_D	EM2207398019	34	<1

							Arsenic	Cadmium
							mg/kg	mg/kg
RPD								
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal			
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Field_D	EM2207398045		
RPD								
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal			
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	25/04/2022	882647	MGT	Interlab_D	EM2207398045		
RPD								
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal		26	<1
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Field_D	EM2207398021	27	1
RPD								
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal		4	0
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	25/04/2022	882647	MGT	Interlab_D	EM2207398021	26	<1
RPD								
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	25/04/2022	882647	MGT	Interlab_D	EM2207398021	32	<0.4
RPD								
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal		21	0
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	25/04/2022	882647	MGT	Interlab_D	EM2207398021	26	<1
RPD								
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal			
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Field_D	EM2207398047		
RPD								
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	25/04/2022	EM2207398	ALSE-Melbourne	Normal			
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	25/04/2022	882647	MGT	Interlab_D	EM2207398047		
RPD								
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	29/04/2022	884110	MGT	Normal		55	<0.4
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	29/04/2022	884110	MGT	Field_D	M22-My0000813	59	<0.4
RPD								
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	29/04/2022	884110	MGT	Normal		7	0
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	29/04/2022	EM2207719	ALSE-Melbourne	Interlab_D	M22-My0000813	55	<0.4
RPD								
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	29/04/2022	EM2207719	ALSE-Melbourne	Interlab_D	M22-My0000813	38	<1
RPD								
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	29/04/2022	884110	MGT	Normal		37	0
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	29/04/2022	884110	MGT	Field_D	M22-My0000822		
RPD								
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	29/04/2022	884110	MGT	Normal			
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	29/04/2022	884110	MGT	Field_D	M22-My0000829		
RPD								
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	29/04/2022	884110	MGT	Normal			
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	29/04/2022	EM2207719	ALSE-Melbourne	Interlab_D	M22-My0000829		
RPD								
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	29/04/2022	EM2207719	ALSE-Melbourne	Normal		29	<1
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	29/04/2022	884110	MGT	Interlab_D	EM2207719001	26	<0.4
RPD								
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	29/04/2022	EM2207719	ALSE-Melbourne	Normal		11	0
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	29/04/2022	884110	MGT	Interlab_D	EM2207719001	29	<1
RPD								
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	29/04/2022	884110	MGT	Interlab_D	EM2207719001		

							Arsenic	Cadmium
							mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	29/04/2022	EM2207719	ALSE-Melbourne	Normal			
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	29/04/2022	884110	MGT	Interlab_D	EM2207719011		
RPD								
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	30/04/2022	884270	MGT	Normal		21	<0.4
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	30/04/2022	EM2207807	ALSE-Melbourne	Interlab_D	M22-My0001918	12	<1
RPD								
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	30/04/2022	884270	MGT	Normal		55	0
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	30/04/2022	EM2207807	ALSE-Melbourne	Interlab_D	M22-My0001960		
RPD								
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	30/04/2022	EM2207807	ALSE-Melbourne	Normal		20	<1
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	30/04/2022	EM2207807	ALSE-Melbourne	Field_D	EM2207807001	22	<1
RPD								
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	30/04/2022	EM2207807	ALSE-Melbourne	Normal		20	<1
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	30/04/2022	884270	MGT	Interlab_D	EM2207807001	29	<0.4
RPD								
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	30/04/2022	EM2207807	ALSE-Melbourne	Normal		20	<1
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	30/04/2022	884270	MGT	Interlab_D	EM2207807001		
RPD								
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	30/04/2022	EM2207807	ALSE-Melbourne	Normal			
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	30/04/2022	EM2207807	ALSE-Melbourne	Field_D	EM2207807028		
RPD								
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	30/04/2022	EM2207807	ALSE-Melbourne	Normal			
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	30/04/2022	884270	MGT	Interlab_D	EM2207807028		
RPD								
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	1/05/2022	884270	MGT	Normal		19	<0.4
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Interlab_D	M22-My0001930	14	<1
RPD								
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	1/05/2022	884270	MGT	Normal		30	0
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Interlab_D	M22-My0001970		
RPD								
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Normal		27	<1
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Field_D	EM2207807014	23	<1
RPD								
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Normal		16	0
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	1/05/2022	884270	MGT	Interlab_D	EM2207807014	27	<1
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	1/05/2022	884270	MGT	Interlab_D	EM2207807014	32	<0.4
RPD								
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Normal		17	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Normal		27	<1
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	1/05/2022	884270	MGT	Interlab_D	EM2207807014		
RPD								
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Normal			
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Field_D	EM2207807039		
RPD								
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	1/05/2022	EM2207807	ALSE-Melbourne	Normal			

							Arsenic	Cadmium
							mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	1/05/2022	884270	MGT	Interlab_D	EM2207807039		
RPD								

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL)

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

	Metals											PAHs (Vic EPA List)
	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	5	5	1	5	0.1	5	5	2	2	10	5	0.5

Location Code	Field ID	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	73	120	<1	5.0	<0.1	<5	170	<2	<2	<10	120	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	59	150	<1	5.1	<0.1	<5	170	<2	<2	<10	120	
RPD		21	22	0	2	0	0	0	0	0	0	0	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	73	120	<1	5.0	<0.1	<5	170	<2	<2	<10	120	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	59	121	<1.0	<5	<0.1	<5	179	<5	<2	<10	111	<0.5
RPD		21	1	0	0	0	0	5	0	0	0	8	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	49	87	<1.0	<5	<0.1	<5	142	<5	<2	<10	83	<0.5
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	95	83	<1.0	<5	<0.1	<5	177	<5	<2	<10	105	<0.5
RPD		64	5	0	0	0	0	22	0	0	0	23	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	49	87	<1.0	<5	<0.1	<5	142	<5	<2	<10	83	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	79	150	<1	6.5	<0.1	<5	200	<2	<2	<10	150	
RPD		47	53	0	26	0	0	34	0	0	0	58	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	49	87	<1.0	<5	<0.1	<5	142	<5	<2	<10	83	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	77	130	<1	5.4	<0.1	<5	180	2.0	<2	<10	150	
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	68	110	<1	<5	<0.1	<5	170	<2	<2	<10	140	
RPD		12	17	0	8	0	0	6	0	0	0	7	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	77	130	<1	5.4	<0.1	<5	180	2.0	<2	<10	150	
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	56	94	<1.0	<5	<0.1	<5	170	<5	<2	<10	108	<0.5
RPD		32	32	0	8	0	0	6	0	0	0	33	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

		Metals											
		Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	47	91	<1.0	<5	<0.1	<5	145	<5	<2	<10	77	<0.5
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	58	107	<1.0	<5	<0.1	<5	159	<5	<2	<10	103	<0.5
RPD		21	16	0	0	0	0	9	0	0	0	29	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	47	91	<1.0	<5	<0.1	<5	145	<5	<2	<10	77	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	130	160	<1	5.7	<0.1	<5	210	<2	<2	<10	170	
RPD		94	55	0	13	0	0	37	0	0	0	75	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	47	91	<1.0	<5	<0.1	<5	145	<5	<2	<10	77	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	78	140	<1	<5	<0.1	<5	160	2.1	<2	<10	140	
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	75	110	<1	<5	<0.1	<5	150	<2	<2	<10	110	
RPD		4	24	0	0	0	0	6	5	0	0	24	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	78	140	<1	<5	<0.1	<5	160	2.1	<2	<10	140	
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	47	85	<1.0	<5	<0.1	<5	120	<5	<2	<10	80	<0.5
RPD		50	49	0	0	0	0	29	0	0	0	55	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	59	106	<1.0	<5	<0.1	<5	169	<5	<2	<10	98	<0.5
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	60	107	<1.0	<5	<0.1	<5	167	<5	<2	<10	96	<0.5
RPD		2	1	0	0	0	0	1	0	0	0	2	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	59	106	<1.0	<5	<0.1	<5	169	<5	<2	<10	98	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	67	140	<1	5.2	<0.1	<5	170	<2	<2	<10	140	
RPD		13	28	0	4	0	0	1	0	0	0	35	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	59	106	<1.0	<5	<0.1	<5	169	<5	<2	<10	98	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												

		Metals											
		Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	57	103	<1.0	<5	<0.1	<5	157	<5	<2	<10	102	<0.5
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	60	98	<1.0	6	<0.1	<5	152	<5	<2	<10	96	<0.5
RPD		5	5	0	18	0	0	3	0	0	0	6	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	57	103	<1.0	<5	<0.1	<5	157	<5	<2	<10	102	<0.5
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	64	130	<1	<5	<0.1	<5	160	<2	<2	<10	130	
RPD		12	23	0	0	0	0	2	0	0	0	24	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	57	103	<1.0	<5	<0.1	<5	157	<5	<2	<10	102	<0.5
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	74	160	<1	6.5	<0.1	<5	240	<2	<2	<10	160	
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	73	150	<1	7.4	<0.1	<5	230	<2	<2	<10	160	
RPD		1	6	0	13	0	0	4	0	0	0	0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	74	160	<1	6.5	<0.1	<5	240	<2	<2	<10	160	
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	58	98	<1.0	<5	<0.1	<5	175	<5	<2	<10	118	<0.5
RPD		24	48	0	26	0	0	31	0	0	0	30	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	73	86	<1.0	<5	<0.1	<5	173	<5	<2	<10	121	<0.5
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	100	140	<1	6.8	<0.1	<5	240	2.1	<2	<10	160	
RPD		31	48	0	31	0	0	32	0	0	0	28	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	73	86	<1.0	<5	<0.1	<5	173	<5	<2	<10	121	<0.5
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

		Metals											
		Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS												
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	98	170	<1	<5	<0.1	<5	280	<2	<2	<10	160	
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	67	115	<1.0	<5	<0.1	<5	173	<5	<2	<10	101	<0.5
RPD		38	39	0	0	0	0	47	0	0	0	45	
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF												
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	65	80	<1.0	<5	<0.1	<5	183	<5	<2	<10	145	<0.5
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	59	82	<1.0	<5	<0.1	<5	167	<5	<2	<10	118	<0.5
RPD		10	2	0	0	0	0	9	0	0	0	21	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	65	80	<1.0	<5	<0.1	<5	183	<5	<2	<10	145	<0.5
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	70	110	<1	6.1	<0.1	<5	220	<2	<2	<10	150	
RPD		7	32	0	20	0	0	18	0	0	0	3	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	65	80	<1.0	<5	<0.1	<5	183	<5	<2	<10	145	<0.5
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	80	160	<1	<5	<0.1	<5	220	<2	<2	<10	140	
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	66	116	<1.0	<5	<0.1	<5	172	<5	<2	<10	101	<0.5
RPD		19	32	0	0	0	0	24	0	0	0	32	
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF												
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	54	90	<1.0	<5	<0.1	<5	163	<5	<2	<10	119	<0.5
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	60	85	<1.0	<5	<0.1	<5	153	<5	<2	<10	122	<0.5
RPD		11	6	0	0	0	0	6	0	0	0	2	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	54	90	<1.0	<5	<0.1	<5	163	<5	<2	<10	119	<0.5
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	84	120	<1	6.8	<0.1	<5	260	<2	<2	<10	200	
RPD		43	29	0	31	0	0	46	0	0	0	51	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	54	90	<1.0	<5	<0.1	<5	163	<5	<2	<10	119	<0.5
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												

		Metals											
		Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

	PAH											
	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
EQL	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Location Code	Field ID	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD			0	0	0	0	0	0	0	0		0	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD		0	0	0	0	0	0	0	0	0		0	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0		0	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD			0	0	0	0	0	0	0	0		0	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

		PAH											
		Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD		0	0	0	0	0	0	0	0	0		0	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0		0	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD			0	0	0	0	0	0	0	0		0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD		0	0	0	0	0	0	0	0	0		0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0		0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												

		PAH											
		Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD		0	0	0	0	0	0	0	0	0		0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0		0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD			0	0	0	0	0	0	0	0		0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0		0	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

		PAH											
		Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS												
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF												
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD			0	0	0	0	0	0	0	0		0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF												
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
RPD			0	0	0	0	0	0	0	0		0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5	
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												

		PAH											
		Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1

Location Code	Field ID	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0		0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

											BT		
		Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0		0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0		0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												

											BT		
		Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0		0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0		0	0	0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

											BT		
		Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS												
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF												
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0		0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF												
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0		0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0		0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												

		BT											
		Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EX	TRH											
	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.2	0.3	20	20	50	50	100	100	50	20	20

Location Code	Field ID	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

EX		TRH											
		Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												

EX		TRH											
		Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

EX		TRH											
		Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS												
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
	RPD												
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
	RPD	0	0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF												
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS												
	RPD												
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
	RPD	0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
	RPD	0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
	RPD												
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS												
	RPD												
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
	RPD												
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
	RPD	0	0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF												
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS												
	RPD												
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
	RPD	0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20
	RPD	0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
	RPD												
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
	RPD												
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												

EX		TRH											
		Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	TPH											
	C15-C28	C29-C36	+C10-C36 (Sum of total)	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	50	50	50	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Location Code	Field ID	C15-C28	C29-C36	+C10-C36 (Sum of total)	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

		TPH											
		C15-C28	C29-C36	+C10-C36 (Sum of total)	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												

TPH													
		C15-C28	C29-C36	+C10-C36 (Sum of total)	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

TPH													
		C15-C28	C29-C36	+C10-C36 (Sum of total)	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS												
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF												
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF												
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												

TPH												
C15-C28	C29-C36	+C10-C36 (Sum of total)	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF											
RPD												

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	Organochlorine Pesticides											
	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Hepachlor	Hepachlor epoxide	a-BHC	b-BHC
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.1	0.03	0.03	0.05	0.05	0.05	0.05	0.05

Location Code	Field ID	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Hepachlor	Hepachlor epoxide	a-BHC	b-BHC
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0			0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0			0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

		Organochlorine Pesticides											
		Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	Chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0			0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												

		Organochlorine Pesticides											
		Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0	0	0	0	0			0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

		Organochlorine Pesticides											
		Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS												
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF												
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF												
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05
RPD		0		0	0	0			0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												

		Organochlorine Pesticides											
		Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

	d-BHC mg/kg	γ-BHC (Lindane) mg/kg	Methoxychlor mg/kg	Toxaphene mg/kg	Organochlorine pesticides EPAVc mg/kg	Other organochlorine pesticides EPAVc mg/kg	2-Chlorophenol mg/kg	2,4-Dichlorophenol mg/kg	2,4,5-Trichlorophenol mg/kg	2,4,6-Trichlorophenol mg/kg	2,6-Dichlorophenol mg/kg	4-chloro-3-methylphenol mg/kg
EQL	0.05	0.05	0.05	0.5	0.1	0.03	0.5	0.5	1	1	0.5	1

Location Code	Field ID	d-BHC mg/kg	γ-BHC (Lindane) mg/kg	Methoxychlor mg/kg	Toxaphene mg/kg	Organochlorine pesticides EPAVc mg/kg	Other organochlorine pesticides EPAVc mg/kg	2-Chlorophenol mg/kg	2,4-Dichlorophenol mg/kg	2,4,5-Trichlorophenol mg/kg	2,4,6-Trichlorophenol mg/kg	2,6-Dichlorophenol mg/kg	4-chloro-3-methylphenol mg/kg
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.5	<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.5	<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.05	<0.05	<0.05	<0.5	<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.5	<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.5	<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.5	<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

		d-BHC	γ-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVlc	Other organochlorine pesticides EPAVlc	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0		0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0		0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0		0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0		0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0		0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												

		d-BHC	γ-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVc	Other organochlorine pesticides EPAVc	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0		0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0		0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0		0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0		0	0	0	0	0	0	0	0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

		d-BHC	γ-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVc	Other organochlorine pesticides EPAVc	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS												
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0		0	0	0	0	0	0	0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF												
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0		0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0		0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0		0	0	0	0	0	0	0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF												
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
RPD		0	0	0		0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1
RPD		0	0	0		0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												

		d-BHC	γ-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

	Phenols											
	Pentachlorophenol mg/kg	2,3,4,5 & 2,3,4,6-Tetrachlorophenol mg/kg	4,6-Dinitro-2-methylphenol mg/kg	Tetrachlorophenols mg/kg	2,3,5,6-Tetrachlorophenol mg/kg	Cresol Total mg/kg	4,6-Dinitro-o-cyclohexyl phenol mg/kg	Phenols (halogenated) EPAVIC mg/kg	Phenols (non-halogenated) EPAVIC mg/kg	2,4-Dimethylphenol mg/kg	2-Methylphenol mg/kg	2-Nitrophenol mg/kg
EQL	1	0.05	5	10	0.03	0.5	20	1	20	0.5	0.2	1

Location Code	Field ID	Pentachlorophenol mg/kg	2,3,4,5 & 2,3,4,6-Tetrachlorophenol mg/kg	4,6-Dinitro-2-methylphenol mg/kg	Tetrachlorophenols mg/kg	2,3,5,6-Tetrachlorophenol mg/kg	Cresol Total mg/kg	4,6-Dinitro-o-cyclohexyl phenol mg/kg	Phenols (halogenated) EPAVIC mg/kg	Phenols (non-halogenated) EPAVIC mg/kg	2,4-Dimethylphenol mg/kg	2-Methylphenol mg/kg	2-Nitrophenol mg/kg
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
RPD		0		0	0		0	0			0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
RPD		0		0				0			0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
RPD		0	0	0		0		0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
RPD		0		0				0			0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
RPD		0		0	0		0	0			0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
RPD		0		0				0			0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

		Phenols											
		Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVic	Phenols (non-halogenated) EPAVic	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
RPD		0	0	0		0		0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
RPD		0		0				0			0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
RPD		0		0	0		0	0			0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
RPD		0		0				0			0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
RPD		0	0	0		0		0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
RPD		0		0				0			0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												

		Phenols											
		Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVIC	Phenols (non-halogenated) EPAVIC	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
RPD		0	0	0		0		0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
RPD		0		0				0			0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
RPD		0		0	0		0	0			0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
RPD		0		0				0			0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1
RPD		0		0				0			0	0	0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

		Phenols											
		Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVic	Phenols (non-halogenated) EPAVic	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS												
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<1	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<0.5	<0.2	<1
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF												
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<1	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<1	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<0.5	<0.2	<1
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF												
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<1	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
RPD		0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<1.0	<0.05	<5	<10	<0.03	<0.5	<20	<1.00	<20	<1	<1	<1
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												

		Phenols											
		Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVic	Phenols (non-halogenated) EPAVic	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL	5	0.4	5	20	0.5	1	20	0.00001	0.005	0.00001	0.005	0.00005

Location Code	Field ID	2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD		0	0	0	0	0	0	0		0		0	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0				0		0	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0			0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD		0	0	0	0	0				0		0	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD		0	0	0	0	0	0	0		0		0	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0				0		0	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF								<0.00001		<0.00001		<0.00005

		2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0			0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD		0	0	0	0	0			0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD		0	0	0	0	0	0	0		0		0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0				0		0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0			0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD		0	0	0	0	0				0		0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005

		2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
RPD									0		0		0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0			0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD		0	0	0	0	0				0		0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD		0	0	0	0	0	0	0		0		0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0				0		0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD		0	0	0	0	0				0		0	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0

		2,4-Dinitrophenol	3,4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20	<0.00005	<0.005	<0.00005	<0.005	<0.00005
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0				0		0	
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0			0		0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20	<0.00005	<0.005	<0.00005	<0.005	<0.00005
RPD		0	0	0	0	0				0		0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20	<0.00005	<0.005	<0.00005	<0.005	<0.00005
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0				0		0	
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF								<0.00001		<0.00001		<0.00005
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0			0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20	<0.00005	<0.005	<0.00005	<0.005	<0.00005
RPD		0	0	0	0	0				0		0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS								<0.00005		<0.00005		<0.00005
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS								<0.00005		<0.00005		<0.00005
RPD									0		0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS								<0.00005		<0.00005		<0.00005

		2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF								<0.00001		<0.00001		<0.00005
RPD									0		0		0

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	acid (6:2 FTS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NEFOSA)		N-ethyl-perfluorooctanesulfonamide acetic acid (NEFOSAA)		N-ethylperfluorooctanesulfonamide ethanol (NEFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamide acetic acid
	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL	0.01	0.00001	0.005	0.00005	0.005	0.00002	0.01	0.00005	0.005	0.00005	0.005	0.00002

Location Code	Field ID	acid (6:2 FTS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NEFOSA)		N-ethyl-perfluorooctanesulfonamide acetic acid (NEFOSAA)		N-ethylperfluorooctanesulfonamide ethanol (NEFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamide acetic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	
RPD		0		0		0		0		0		0	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0		0		0		0		0		0	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00002
RPD			0		0		0		0		0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	
RPD		0		0		0		0		0		0	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00002
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00002
RPD			0		0		0		0		0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00002
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	
RPD		0		0		0		0		0		0	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0		0		0		0		0		0	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005

		acid (6:2 FTS)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NETFOSA)		N-ethyl-perfluorooctanesulfonamide acetic acid (NETFOAA)		N-ethylperfluorooctanesulfonamide ethanol (NETFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamide (NMeFOAA)	
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
RPD			0		0		0		0		0		0		0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
RPD		0		0		0		0		0		0		0	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
RPD			0		0		0		0		0		0		0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
RPD		0		0		0		0		0		0		0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0		0		0		0		0		0		0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
RPD			0		0		0		0		0		0		0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
RPD		0		0		0		0		0		0		0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005

		acid (6:2 FTS)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NETFOSA)		N-ethyl-perfluorooctanesulfonamide acetic acid (NETFOSAA)		N-ethylperfluorooctanesulfonamideethanol (NETFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamideacetic acid	
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
RPD			0		0		0		0		0		0		0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
RPD			0		0		0		0		0		0		0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.01	<0.00005	<0.005	<0.00005	<0.005	<0.00005	<0.01	<0.00005	<0.005	<0.00005	<0.005	<0.00005	<0.005	<0.00005
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
RPD			0		0		0		0		0		0		0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00005		<0.00005		<0.00002
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
RPD		0		0		0		0		0		0		0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0		0		0		0		0		0		0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
RPD		0		0		0		0		0		0		0	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0

		acid (6:2 FTS)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NEFOSA)		N-ethyl-perfluorooctanesulfonamide acetic acid (NEFOSAA)		N-ethylperfluorooctanesulfonamide ethanol (NEFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamide acetic acid	
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0		0		0		0		0		0		0	
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
RPD		0		0		0		0		0		0		0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0		0		0		0		0		0		0	
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005	
RPD		0		0		0		0		0		0		0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005

		acid (6:2 FTS)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NETFOSA)		N-ethyl-perfluorooctanesulfonamide acetic acid (NETFOSAA)		N-ethylperfluorooctanesulfonamide ethanol (NETFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamide acetic acid	
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L		
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD			0		0		0		0		0		0		0

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	(N)MeFOSAA	N-Methylperfluorooctanesulfonamideethanol (N-MeFOSE)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorodecanesulfonic
	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L
EQL	0.01	0.00005	0.005	0.00005	0.005	0.00001	0.005

Location Code	Field ID	(N)MeFOSAA	N-Methylperfluorooctanesulfonamideethanol (N-MeFOSE)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorodecanesulfonic
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD		0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD		0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		<0.00005	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002
RPD			0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD		0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD		0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.00005	<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.00005	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.00005	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
RPD			0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.00005	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD		0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD		0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.00005	<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.00005	<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.00005	<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001

		N-MeFOSAA		N-Methylperfluorooctanesulfonamideethanol (N-MeFOSE)		Perfluorobutanoic acid (PFBA)		Perfluorobutane sulfonic acid (PFBS)		Perfluorodecanoic acid (PFDA)		Perfluorododecanoic acid (PFDoDA)		Perfluorodecane sulfonic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
RPD			0		0		0		0		0		0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		0		0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
RPD			0		0		0		0		0		0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
RPD		0		0		0		0		0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
RPD			0		0		0		0		0		0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		0		0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001

		(N)MeFOSAA	N-Methylperfluorooctanesulfonamideethanol (N-MeFOSE)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDA)	Perfluorodecanesulfonic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
RPD			0		0		0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00005		<0.0001		<0.00002	
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS		<0.00005		<0.0001		<0.00002	
RPD			0		0		0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00005		<0.0001		<0.00002	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001	
RPD			0		0		0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD		0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.01	<0.00005	<0.005	<0.0001	<0.005	<0.00002	<0.005
RPD		0	0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001	
RPD			0		0		0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00005		<0.0001		<0.00002	
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS		<0.00005		<0.0001		<0.00002	
RPD			0		0		0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00005		<0.0001		<0.00002	
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001	
RPD			0		0		0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.005
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.005
RPD		0		0		0		0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.005
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD		0		0		0		0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00005		<0.00005		<0.00001	
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00001	
RPD			0		0		0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00005		<0.00005		<0.00001	
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS		<0.00005		<0.0001		<0.00002	
RPD			0		0		0	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.005
RPD		0		0		0		0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001	
RPD			0		0		0	

		Perfluorooctanesulfonamide (PFOSAA)		N-Methylperfluorooctanesulfonamideethanol (N-MeFOSE)		Perfluorobutanoic acid (PFBA)		Perfluorobutane sulfonic acid (PFBS)		Perfluorodecanoic acid (PFDA)		Perfluorododecanoic acid (PFDoDA)		Perfluorodecane sulfonic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.01	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
RPD			0		0		0		0		0		0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.01		<0.005	<0.005	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.00002
RPD		0		0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
RPD			0		0		0		0		0		0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.01		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
RPD		0		0	0	0	0	0	0	0	0	0	0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
RPD			0		0		0		0		0		0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.01		<0.005	<0.005	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.00002
RPD		0		0	0	0	0	0	0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.00002
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002
RPD			0		0		0		0		0		0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002	<0.00002

		Perfluorobutanoic acid (PFBA)		Perfluorobutane sulfonic acid (PFBS)		Perfluorodecanoic acid (PFDA)		Perfluorododecanoic acid (PFDoDA)		Perfluorodecanesulfonic acid (PFDS)	
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD			0		0		0		0		0

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

PFOS/PFOA												
EQL	acid (PFDS)	Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane sulfonic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)		Perfluorononanoic acid (PFNA)		Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L
EQL		0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.00001

Location Code	Field ID	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00001
RPD		0		0		0		0		0		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
RPD			0		0		0		0			0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00001
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00001
RPD		0	0	0	0	0	0	0	0	0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00001
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00001
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0		0		0		0			0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
RPD			0		0		0		0			0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0			0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00001
RPD		0		0		0		0		0		
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001

		PFOS/PFOA												
		Perfluorooctanoic acid (PFOS)		Perfluoroheptanoic acid (PFHpA)		Perfluorooheptane sulfonic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)		Perfluorononanoic acid (PFNA)		Perfluorooctanesulfonic acid (PFOS)(trace)		Perfluorooctanoic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L
RPD			0		0		0		0		0			0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
RPD			0		0		0		0		0			0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0			0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002			<0.00001
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002			<0.00001
RPD			0		0		0		0		0			0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002			<0.00001
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001		<0.005	<0.00001
RPD			0		0		0		0		0			0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002			<0.00001
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0			0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
RPD			0		0		0		0		0			0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0			0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD			0		0		0		0		0			0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002			<0.00001
RPD			0		0		0		0		0			0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0			0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0			0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002			<0.00001
RPD			0		0		0		0		0			0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002			<0.00001
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD			0		0		0		0		0			0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002			<0.00001
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0			0

		PFOS/PFOA												
		acid (PFDS)		Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane sulfonic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)		Perfluorononanoic acid (PFNA)		Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00001	
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD			0		0		0		0		0		0	
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
RPD		0		0		0		0		0			0	
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00001	
RPD			0		0		0		0		0		0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
RPD		0	0	0	0	0	0	0	0	0			0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		
RPD		0		0		0		0		0				
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD			0		0		0		0				0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001	
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001	
RPD			0		0		0		0				0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001	
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD			0		0		0		0				0	
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
RPD		0		0		0		0		0			0	
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00001	
RPD			0		0		0		0		0		0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
RPD		0	0	0	0	0	0	0	0	0			0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		
RPD		0		0		0		0		0				
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD			0		0		0		0				0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001	
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001	
RPD			0		0		0		0				0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001	

		PFOS/PFOA												
		Perfluorooctanoic acid (PFDS)		Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane sulfonic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)		Perfluorononanoic acid (PFNA)		Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	(PFOA)	Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		Perfluoropropanesulfonic acid (PPFS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid
	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL	0.005	0.00002	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001

Location Code	Field ID											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00005	<0.0050	<0.00002
RPD		0		0		0		0		0		0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		<0.00002		<0.00002		<0.00002			<0.00005		<0.00002
RPD			0		0		0			0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00005	<0.0050	<0.00002
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00005	<0.0050	<0.00002
RPD		0	0	0	0	0	0	0		0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00005	<0.0050	<0.00002
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005	<0.005		<0.005	
RPD		0		0		0		0		0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00005	<0.0050	<0.00002
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.0050	<0.00005	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.00001	<0.0050	<0.00001
RPD			0		0		0		0		0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00002		<0.00002		<0.00002			<0.00005		<0.00002
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		<0.00002		<0.00002		<0.00002			<0.00005		<0.00002
RPD			0		0		0			0		0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00002		<0.00002		<0.00002			<0.00005		<0.00002
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001	<0.00001	<0.00001	<0.00001
RPD			0		0		0		0		0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005	<0.005		<0.005	
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005	<0.005		<0.005	
RPD		0		0		0		0	0		0	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005	<0.005		<0.005	
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		<0.00005	<0.0050	<0.00002
RPD		0		0		0		0		0		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001

		(PFOA)		Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		Perfluoropropanesulfonic acid (PPFS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS		<0.00002		<0.00002		<0.00002						<0.00005	<0.00002
RPD			0		0		0						0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050					<0.00005	<0.0050
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050					<0.00005	<0.0050
RPD		0	0	0	0	0	0	0					0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050					<0.00005	<0.0050
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005			<0.005	
RPD		0		0		0		0					0	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050					<0.00005	<0.0050
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001				<0.00001	<0.00001
RPD			0		0		0						0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00002		<0.00002		<0.00002						<0.00005	<0.00002
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS		<0.00002		<0.00002		<0.00002						<0.00005	<0.00002
RPD			0		0		0						0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00002		<0.00002		<0.00002						<0.00005	<0.00002
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001				<0.00001	<0.00001
RPD			0		0		0						0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005			<0.005	
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005			<0.005	
RPD		0		0		0		0		0			0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005			<0.005	
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050					<0.00005	<0.0050
RPD		0		0		0		0					0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001				<0.00001	<0.00001
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001				<0.00001	<0.00001
RPD			0		0		0		0				0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001				<0.00001	<0.00001
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001				<0.00001	<0.00001
RPD			0		0		0		0				0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001				<0.00001	<0.00001
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS		<0.00002		<0.00002		<0.00002						<0.00005	<0.00002
RPD			0		0		0						0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050					<0.00005	<0.0050
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050					<0.00005	<0.0050
RPD		0	0	0	0	0	0	0					0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050					<0.00005	<0.0050
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005			<0.005	
RPD		0		0		0		0					0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050					<0.00005	<0.0050
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001				<0.00001	<0.00001

		(PFOA)		Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		Perfluoropropanesulfonic acid (PPFS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		<0.00005		<0.00002		<0.00002					<0.00005		<0.00002
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
RPD			0		0		0					0		0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
RPD			0		0		0					0		
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS		<0.00005		<0.00002		<0.00002					<0.00005		<0.00002
RPD			0		0		0					0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
RPD			0		0		0					0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD			0		0		0					0		
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
RPD			0		0		0					0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00005		<0.00002		<0.00002					<0.00005		<0.00002
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS		<0.00005		<0.00002		<0.00002					<0.00005		<0.00002
RPD			0		0		0					0		0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00005		<0.00002		<0.00002					<0.00005		<0.00002
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
RPD			0		0		0					0		0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
RPD			0		0		0					0		
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS		<0.00005		<0.00002		<0.00002					<0.00005		<0.00002
RPD			0		0		0					0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
RPD			0		0		0					0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD			0		0		0					0		
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050				<0.00005	<0.0050	<0.00002
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
RPD			0		0		0					0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00005		<0.00002		<0.00002					<0.00005		<0.00002
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS		<0.00005		<0.00002		<0.00002					<0.00005		<0.00002
RPD			0		0		0					0		0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00005		<0.00002		<0.00002					<0.00005		<0.00002

		(PFOA)		Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		Perfluoropropanesulfonic acid (PFPrS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD			0		0		0				0		0	

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	(PFT/DA)	Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS
	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001

Location Code	Field ID											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD		0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
RPD		0	0	0	0	0	0	0	0	0		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		<0.00002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0	0	0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
RPD		0	0	0	0	0	0	0	0	0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD		0	0	0	0	0	0	0	0	0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0	0	0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		<0.00002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		
RPD			0	0	0	0	0	0	0	0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0	0	0		
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD		0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
RPD		0	0	0	0	0	0	0	0	0		
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
RPD			0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001

		(PFT/DA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		0		0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
RPD		0		0		0		0		0		0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD		0		0		0		0		0		0		0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001

		(PFT/DA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	
RPD			0		0		0		0		0			
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001			
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001			
RPD			0		0		0		0		0			
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001			
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001		<0.00001
RPD			0		0		0		0		0			
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
RPD		0	0	0	0	0	0	0	0	0	0	0		
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	<0.005	
RPD		0		0		0		0		0		0		
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0			
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001			
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001			
RPD			0		0		0		0		0			
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001			
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0			
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	<0.005	
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	<0.005	
RPD		0		0		0		0		0		0		
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	<0.005	
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
RPD		0		0		0		0		0		0		
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	<0.005	
RPD		0		0		0		0		0		0		
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0		0		0	

		(PFT/DA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001					
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001			<0.00001		<0.00001
RPD			0		0		0		0					
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005			<0.005	
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
RPD		0		0		0		0		0				
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001			<0.00001		<0.00001
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001					
RPD			0		0		0		0					
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
RPD		0		0		0		0		0				
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005			<0.005	
RPD		0		0		0		0		0				
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001			<0.00001		<0.00001
RPD			0		0		0		0					
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001					
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001					
RPD			0		0		0		0					
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001					
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001			<0.00001		<0.00001
RPD			0		0		0		0					
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.005		<0.005		<0.005		<0.005		<0.005			<0.005	
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
RPD		0		0		0		0		0				
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.00001			<0.00001		<0.00001
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001					
RPD			0		0		0		0					
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
RPD		0		0		0		0		0				
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.005			<0.005	
RPD		0		0		0		0		0				
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050				
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001			<0.00001		<0.00001
RPD			0		0		0		0					
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001					
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS		<0.00002		<0.00001		<0.00001		<0.00001					
RPD			0		0		0		0					
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00002		<0.00001		<0.00001		<0.00001					

		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS
		(PFTrDA)	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	<0.00001
RPD			0		0		0		0			

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	(PFHxS + PFOS + PFOA)*	Sum of PFAS		1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane
	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.005	0.00001	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Location Code	Field ID	(PFHxS + PFOS + PFOA)*	Sum of PFAS	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.005	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.005	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
RPD			0	0	0		0				0	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.0001									
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.0001									
RPD			0									
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.0001									
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF		<0.0001									
RPD			0									
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF		<0.0001									
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		<0.00001									
RPD			0									
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
RPD			0	0	0		0				0	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.005	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.0001									
RPD			0									
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00001									
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		<0.00001									
RPD			0									
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		<0.00001									
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF		<0.0001									
RPD			0									
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.005	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.005	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.005	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
RPD			0	0	0		0				0	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.0001									
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.0001									
RPD			0									
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.0001									

		(PFHxS + PFOS + PFOA)*		1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane
		mg/kg	mg/L									
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF		<0.0001									
RPD			0									
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF		<0.0001									
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS		<0.00001									
RPD			0									
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
RPD			0	0	0		0				0	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				0	0		0				0	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.0001									
RPD			0									
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00001									
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS		<0.00001									
RPD			0									
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS		<0.00001									
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF		<0.0001									
RPD			0									
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0		0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS		<0.00010	<0.0500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD				0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.0001									
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.0001									
RPD			0									
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.0001									
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF		<0.0001									
RPD			0									
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF		<0.0001									
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS		<0.00001									
RPD			0									
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
RPD			0	0	0		0				0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				0	0		0				0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.0001									

		(PFHxS + PFOS + PFOA)*	Sum of PFAS	Sum of PFAS	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane
		mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD			0										
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00001										
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS		<0.00001										
RPD			0										
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS		<0.00001										
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF		<0.0001										
RPD			0										
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00010	<0.0500		<0.50		<0.50				<0.50	
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS		<0.00010	<0.0500		<0.50		<0.50				<0.50	
RPD			0	0		0		0				0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00010	<0.0500		<0.50		<0.50				<0.50	
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				0		0		0				0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00010	<0.0500		<0.50		<0.50				<0.50	
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.0001										
RPD			0										
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00001										
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS		<0.00001										
RPD			0										
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		<0.00001										
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF		<0.0001										
RPD			0										
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS		<0.00010	<0.0500		<0.50		<0.50				<0.50	
RPD				0		0		0				0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.0001										
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.0001										
RPD			0										
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.0001										
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF		<0.0001										
RPD			0										
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF		<0.0001										
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS		<0.00010										
RPD			0										
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		<0.00010	<0.0500		<0.50		<0.50				<0.50	
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				0		0		0				0	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		<0.00010	<0.0500		<0.50		<0.50				<0.50	
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.0001										
RPD			0										

		(PFHxS + PFOS + PFOA)*		1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane
		mg/kg	mg/L									
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		<0.00010									
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF		<0.0001									
RPD			0									
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS		<0.00010	<0.0500	<0.50	<0.50	<0.50	<0.50			<0.50	
RPD			0	0	0	0	0				0	
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF		<0.0001									
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS		<0.00010									
RPD			0									
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
RPD			0	0	0		0				0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0				0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.0001									
RPD			0									
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00010									
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS		<0.00010									
RPD			0									
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		<0.00010									
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF		<0.0001									
RPD			0									
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS		<0.00010	<0.0500	<0.50	<0.50	<0.50	<0.50			<0.50	
RPD			0	0	0	0	0				0	
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF		<0.0001									
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS		<0.00010									
RPD			0									
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
RPD			0	0	0		0				0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0				0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00010	<0.0500	<0.50		<0.50				<0.50	
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.0001									
RPD			0									
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00010									
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS		<0.00010									
RPD			0									
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		<0.00010									

		(PFHxS + PFOS + PFOA)*		1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane
		mg/kg	mg/L									
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF		<0.0001									
RPD			0									

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	Chlorinated Hydrocarbons											
	1,1,1-trichloroethane	Chloroform	1,1,1,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVIC	Trichloroethene	Chlorinated hydrocarbons EPAVIC	cis-1,2-dichloroethene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Location Code	Field ID	1,1,1-trichloroethane	Chloroform	1,1,1,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVIC	Trichloroethene	Chlorinated hydrocarbons EPAVIC	cis-1,2-dichloroethene
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0				0	0	0	0	0	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

		Chlorinated Hydrocarbons											
		1,1,1-trichloroethane	Chloroform	1,1,1,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVIC	Trichloroethene	Chlorinated hydrocarbons EPAVIC	cis-1,2-dichloroethene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0				0	0	0	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS												
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF												
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0				0	0	0	0	0	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												

		Chlorinated Hydrocarbons											
		1,1,1-trichloroethane	Chloroform	1,1,1,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVIC	Trichloroethene	Chlorinated hydrocarbons EPAVIC	cis-1,2-dichloroethene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0				0	0	0	0	0	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0				0	0	0	0	0	0
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

		Chlorinated Hydrocarbons											
		1,1,1-trichloroethane	Chloroform	1,1,1,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVic	Trichloroethene	Chlorinated hydrocarbons EPAVic	cis-1,2-dichloroethene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS												
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF												
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0				0	0	0	0	0	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS												
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF												
RPD													
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF												
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0				0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0				0	0	0	0	0	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS												
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS												

		Chlorinated Hydrocarbons											
		1,1,1-trichloroethane	Chloroform	1,1,2,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVc	Trichloroethene	Chlorinated hydrocarbons EPAVc	cis-1,2-dichloroethene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	NA		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Sum of WA DWER PFAS (n=10)*	Moisture Content	
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	UG/KG	µg/L	%
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05		1

Location Code	Field ID	1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	Moisture Content	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0	0	0	0	0	0	0	0	0	0		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.4
RPD		0		0		0			0	0	0		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										<0.05		
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF										<0.05		
RPD											0		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										<0.05		
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF										<0.05		
RPD											0		
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										<0.05		
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											<0.01	
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	28.4
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.4
RPD		0		0		0			0	0	0	0	7
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	28.4
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0		0		0			0	0	0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	28.4
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF										<0.05		
RPD											0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											<0.01	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											<0.01	
RPD											0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											<0.01	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF										<0.05		
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0	0	0	0	0	0	0	0	0	0		
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.3
RPD		0		0		0			0	0	0		
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF										<0.05		
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF										<0.05		
RPD											0		
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF										<0.05		

											NA		
		1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	Moisture Content	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	%	
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF										<0.05		
RPD											0		
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF										<0.05		
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS											<0.01	
RPD													
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.7
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.5
RPD		0		0		0			0	0	0	0	3
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.7
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0		0		0			0	0	0		
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.7
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF										<0.05		
RPD											0		
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											<0.01	
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											<0.01	
RPD											0		
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											<0.01	
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF										<0.05		
RPD													
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0	0	0	0	0	0	0	0	0	0		
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	18.9
RPD		0		0		0			0	0	0		
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF										<0.05		
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF										<0.05		
RPD											0		
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF										<0.05		
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF										<0.05		
RPD											0		
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF										<0.05		
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS											<0.01	
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.5
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.1
RPD		0		0		0			0	0	0	0	2
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0		0		0			0	0	0		
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.5
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF										<0.05		

										NA			
		1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*		Moisture Content
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%
RPD											0		
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											<0.01	
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS											<0.01	
RPD											0		
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS											<0.01	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF										<0.05		
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.8
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.9
RPD		0		0		0			0	0	0	0	3
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.8
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.05	
RPD		0		0		0			0	0	0		
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.8
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF										<0.05		
RPD											0		
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS											<0.01	
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS											<0.01	
RPD												0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS											<0.01	
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF										<0.05		
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0	0	0	0	0	0	0	0	0	0		
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.6
RPD		0		0		0			0	0	0		
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										<0.05		
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF										<0.05		
RPD											0		
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										<0.05		
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF										<0.05		
RPD											0		
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										<0.05		
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS											<0.05	
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	33.7
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0		0		0			0	0	0		
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	33.7
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF										<0.05		
RPD											0		

											NA		
		1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	Moisture Content	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS											<0.05	
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF										<0.05		
RPD													
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10.0	<0.05	26.5
RPD		0	0	0	0	0	0	0	0	0	0		
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF										<0.05		
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS											<0.05	
RPD													
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.4
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.6
RPD		0		0		0			0	0	0	0	4
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.4
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0		0		0			0	0	0		
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.4
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF										<0.05		
RPD											0		
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS											<0.05	
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS											<0.05	
RPD												0	
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS											<0.05	
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF										<0.05		
RPD													
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10.0	<0.05	28.4
RPD		0		0		0			0	0	0		
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF										<0.05		
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS											<0.05	
RPD													
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.9
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	32.8
RPD		0		0		0			0	0	0	0	3
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.9
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10		
RPD		0		0		0			0	0	0		
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.9
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF										<0.05		
RPD											0		
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS											<0.05	
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS											<0.05	
RPD												0	
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS											<0.05	

											NA		
		1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	Moisture Content	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			UG/KG
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF										<0.05		
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

	PCBs								Inorg			
	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-
EQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Location Code	Field ID	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD		0	0	0	0	0	0	0	0				
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS								<0.1	1.4	5.2	9.1	5.0
RPD									0				
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										5.5		4.9
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF										5.1		4.9
RPD											8		0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										9.2		5.9
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF										9.1		5.9
RPD											1		0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF										9.2		5.9
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS										9.3		
RPD											1		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS								<0.1	1.6	5.2	8.5	5.0
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS								<0.1	1.4	5.2	8.9	5.0
RPD									0	13	0	5	0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS								<0.1	1.6	5.2	8.5	5.0
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD									0				
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS								<0.1	1.6	5.2	8.5	5.0
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF										5.1		4.9
RPD											2		2
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS										9.1		
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS										9.1		
RPD											0		
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS										9.1		
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF										8.8		5.9
RPD											3		
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD		0	0	0	0	0	0	0	0				
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS								<0.1		5.1		5.0
RPD									0				
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF										5.1		4.9
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF										5.1		4.9
RPD											0		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF										8.9		5.9

		PCBs								Inorg			
		Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF										9.0		5.9
RPD											1		0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF										8.9		5.9
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS										9.2		
RPD											3		
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS								<0.1	1.5	5.1	9.4	5.0
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS								<0.1	1.4	5.1	9.4	5.0
RPD									0	7	0	0	0
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS								<0.1	1.5	5.1	9.4	5.0
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD									0				
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS								<0.1	1.5	5.1	9.4	5.0
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF										5.2		4.9
RPD											2		2
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS										9.4		
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS										9.5		
RPD											1		
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS										9.4		
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF										9.2		5.9
RPD											2		
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD		0	0	0	0	0	0	0	0				
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS								<0.1	1.5	5.0	8.9	5.0
RPD									0				
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF										5.1		4.9
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF										5.1		4.9
RPD											0		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF										8.9		5.9
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF										9.1		5.9
RPD											2		0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF										8.9		5.9
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS										9.3		
RPD											4		
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS								<0.1	1.5	5.0	9.3	5.0
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS								<0.1	1.4	5.0	9.1	5.0
RPD									0	7	0	2	0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS								<0.1	1.5	5.0	9.3	5.0
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD									0				
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS								<0.1	1.5	5.0	9.3	5.0
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF										5.1		4.9

		PCBs							Inorg				
		Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-
RPD											2		2
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS										9.5		
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS										9.6		
RPD											1		
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS										9.5		
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF										9.3		5.9
RPD											2		
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS								<0.1	1.6	6.2	9.1	5.0
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS								<0.1	1.5	5.0	9.0	5.0
RPD									0	6	21	1	0
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS								<0.1	1.6	6.2	9.1	5.0
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD									0				
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS								<0.1	1.6	6.2	9.1	5.0
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF										5.1		4.9
RPD											19		2
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS										9.2		
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS										9.3		
RPD											1		
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS										9.2		
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF										9.1		5.9
RPD											1		
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD		0	0	0	0	0	0	0	0				
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS								<0.1	1.4	5.1	9.0	5.0
RPD									0				
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										5.1		5.0
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF										5.0		5.0
RPD											2		0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										8.8		7.1
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF										8.7		7.1
RPD											1		0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF										8.8		7.1
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS										9.1		
RPD											3		
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS								<0.1	1.0	5.2	9.8	5.0
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD									0				
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS								<0.1	1.0	5.2	9.8	5.0
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF										5.1		5.0
RPD											2		0

		PCBs							Inorg				
		Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS										10.1		
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF										9.6		7.1
RPD											5		
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS								<0.1	1.4	5.1	9.3	5.0
RPD									0				
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF										9.4		6.2
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS										9.6		
RPD											2		
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS								<0.1	1.6	5.2	9.6	5.0
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS								<0.1	1.5	5.2	9.7	5.0
RPD									0	6	0	1	0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS								<0.1	1.6	5.2	9.6	5.0
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD									0				
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS								<0.1	1.6	5.2	9.6	5.0
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF										6.4		5.1
RPD											21		2
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS										10.3		
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS										10.3		
RPD											0		
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS										10.3		
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF										5.0		6.2
RPD											69		
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS								<0.1	1.5	5.2	9.2	5.0
RPD									0				
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF										9.1		7.1
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS										9.5		
RPD											4		
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS								<0.1	1.4	5.2	9.9	5.0
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS								<0.1	1.6	5.2	9.6	5.0
RPD									0	13	0	3	0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS								<0.1	1.4	5.2	9.9	5.0
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
RPD									0				
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS								<0.1	1.4	5.2	9.9	5.0
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF										5.0		5.1
RPD											4		2
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS										10.1		
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS										10.2		
RPD											1		
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS										10.1		

		PCBs							Inorg				
		Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF										9.6		6.2
RPD										5			

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

	anics				Halogenated Benzenes							
	pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane
EQL	0.1	100	1	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Location Code	Field ID	pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	8.1	1,700	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	7.9	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		2	178	7	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	8.1	1,700	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS		140		<5	<0.50	<0.50		<0.50			<0.50	
RPD			170		0	0	0		0			0	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF												
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		200		<5	<0.50	<0.50		<0.50			<0.50	
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS		110		<5	<0.50	<0.50		<0.50			<0.50	
RPD			58		0	0	0		0			0	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		200		<5	<0.50	<0.50		<0.50			<0.50	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	7.8	<100	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			67		0	0	0		0			0	
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS		200		<5	<0.50	<0.50		<0.50			<0.50	
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS												
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	8.5	<100	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	8.2	<100	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		4	0	3	0	0	0	0	0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	8.5	<100	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS		210		<5	<0.50	<0.50		<0.50			<0.50	
RPD			71		0	0	0		0			0	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF												
RPD													
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF												

anics		Halogenated Benzenes										
	pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane
	-	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF											
RPD												
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF											
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS											
RPD												
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS			130	<5	<0.50	<0.50		<0.50		<0.50	
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS			140	<5	<0.50	<0.50		<0.50		<0.50	
RPD				7	0	0	0		0		0	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS			130	<5	<0.50	<0.50		<0.50		<0.50	
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	8.3		130	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				0	0	0	0		0		0	
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS			130	<5	<0.50	<0.50		<0.50		<0.50	
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
RPD												
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS											
RPD												
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS											
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF											
RPD												
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	8.3		<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	8.6		<100	26	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		4		0	18	0	0	0	0	0	0	0
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	8.3		<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS			200	<5	<0.50	<0.50		<0.50		<0.50	
RPD				67	0	0	0		0		0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF											
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF											
RPD												
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF											
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF											
RPD												
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF											
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS											
RPD												
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS			150	<5	<0.50	<0.50		<0.50		<0.50	
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS			130	<5	<0.50	<0.50		<0.50		<0.50	
RPD				14	0	0	0		0		0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS			150	<5	<0.50	<0.50		<0.50		<0.50	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	8.4		<100	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				40	0	0	0		0		0	
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS			150	<5	<0.50	<0.50		<0.50		<0.50	
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF											

		anics				Halogenated Benzenes							
		pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane
		-	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS												
RPD													
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS												
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		180		<5	<0.50	<0.50		<0.50			<0.50	
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS		170		<5	<0.50	<0.50		<0.50			<0.50	
RPD			6		0	0	0		0			0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		180		<5	<0.50	<0.50		<0.50			<0.50	
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	8.4	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			57		0	0	0		0			0	
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS		180		<5	<0.50	<0.50		<0.50			<0.50	
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS												
RPD													
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS												
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	8.2	340	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	8.0	430	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			2	23	0	0	0	0	0	0	0	0	0
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	8.2	340	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS		170		<5	<0.50	<0.50		<0.50			<0.50	
RPD			67		0	0	0		0			0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF												
RPD													
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF												
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS												
RPD													
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		220		<5	<0.50	<0.50		<0.50			<0.50	
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	9.5	380	35	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			53		0	0	0		0			0	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS		220		<5	<0.50	<0.50		<0.50			<0.50	
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF												
RPD													

anics		Halogenated Benzenes										
pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane	
-	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS											
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF											
RPD												
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	8.5	300	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS		170		<5	<0.50	<0.50	<0.50		<0.50		
RPD			55		0	0	0	0		0		
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF											
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS											
RPD												
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		220		<5	<0.50	<0.50	<0.50		<0.50		
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS		240		<5	<0.50	<0.50	<0.50		<0.50		
RPD			9		0	0	0	0		0		
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		220		<5	<0.50	<0.50	<0.50		<0.50		
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	9.4	430	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD			65		0	0	0	0		0		
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS		220		<5	<0.50	<0.50	<0.50		<0.50		
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF											
RPD												
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS											
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS											
RPD												
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS											
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF											
RPD												
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	8.1	150	30	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS		170		<5	<0.50	<0.50	<0.50		<0.50		
RPD			12		0	0	0	0		0		
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF											
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS											
RPD												
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		280		<5	<0.50	<0.50	<0.50		<0.50		
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS		200		<5	<0.50	<0.50	<0.50		<0.50		
RPD			33		0	0	0	0		0		
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		280		<5	<0.50	<0.50	<0.50		<0.50		
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	9.4	130	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD			73		0	0	0	0		0		
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS		280		<5	<0.50	<0.50	<0.50		<0.50		
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF											
RPD												
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS											
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS											
RPD												
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS											

anics		Halogenated Benzenes									
pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane
-	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF										
RPD											

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

EQL	Halogenated Hydrocarbons				MAH							
	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Location Code	Field ID											
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0		0	0	0	0	0
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS						<0.5	<0.5				
RPD								0				
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
RPD												
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF											
RPD												
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF											
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS											
RPD												
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS						<0.5	<0.5				
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS						<0.5	<0.5				
RPD							0	0				
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS						<0.5	<0.5				
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
RPD								0				
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS						<0.5	<0.5				
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
RPD												
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS											
RPD												
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS											
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF											
RPD												
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0		0	0	0	0	0
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS						<0.5	<0.5				
RPD								0				
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF											
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF											
RPD												
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF											

		Halogenated Hydrocarbons				MAH								
		Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF													
RPD														
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF													
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS													
RPD														
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS						<0.5		<0.5					
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS						<0.5		<0.5					
RPD							0		0					
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS						<0.5		<0.5					
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD								0						
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS						<0.5		<0.5					
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF													
RPD														
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS													
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS													
RPD														
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS													
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF													
RPD														
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD		0	0	0	0	0		0	0	0	0	0	0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS						<0.5		<0.5					
RPD								0						
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF													
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF													
RPD														
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF													
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF													
RPD														
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF													
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS													
RPD														
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS						<0.5		<0.5					
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS						<0.5		<0.5					
RPD							0		0					
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS						<0.5		<0.5					
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD								0						
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS						<0.5		<0.5					
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF													

		Halogenated Hydrocarbons				MAH								
		Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
RPD														
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS													
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS													
RPD														
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS													
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF													
RPD														
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS						<0.5		<0.5					
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS						<0.5		<0.5					
RPD							0		0					
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS						<0.5		<0.5					
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD									0					
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS						<0.5		<0.5					
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF													
RPD														
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS													
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS													
RPD														
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS													
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF													
RPD														
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD		0	0	0	0	0		0	0	0	0	0	0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS						<0.5		<0.5					
RPD									0					
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF													
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF													
RPD														
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF													
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF													
RPD														
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF													
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS													
RPD														
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS						<0.5		<0.5					
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD									0					
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS						<0.5		<0.5					
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF													
RPD														

		Halogenated Hydrocarbons				MAH								
		Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS													
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF													
RPD														
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS						<0.5		<0.5					
RPD								0						
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF													
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS													
RPD														
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS						<0.5		<0.5					
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS						<0.5		<0.5					
RPD							0		0					
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS						<0.5		<0.5					
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD								0						
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS						<0.5		<0.5					
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF													
RPD														
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS													
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS													
RPD														
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS													
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF													
RPD														
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS						<0.5		<0.5					
RPD								0						
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF													
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS													
RPD														
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS						<0.5		<0.5					
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS						<0.5		<0.5					
RPD							0		0					
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS						<0.5		<0.5					
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD								0						
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS						<0.5		<0.5					
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF													
RPD														
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS													
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS													
RPD														
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS													

		Halogenated Hydrocarbons				MAH							
		Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF												
RPD													

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

	Solvents			SPOCAS
	Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
	mg/kg	mg/kg	mg/kg	-
EQL	0.5	0.5	0.5	0.1

Location Code	Field ID				
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF	<0.5	<0.5	<0.5	
RPD		0	0	0	
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS				7.9
RPD					
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF				
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF				
RPD					
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF				
A04.02	SX_OB_20220423_16_01_SS_Duplicate_EUF				
RPD					
A04.02	SX_OB_20220423_16_00_SS_Primary_EUF				
A04.02	SX_OB_20220423_16_03_SS_Triplicate_ALS				
RPD					
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS				7.8
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS				7.8
RPD					0
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS				7.8
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS				7.8
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF				
RPD					
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS				
A04.02	SX_OB_20220423_08_12_SS_Duplicate_ALS				
RPD					
A04.02	SX_OB_20220423_08_10_SS_Primary_ALS				
A04.02	SX_OB_20220423_08_14_SS_Triplicate_EUF				
RPD					
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF	<0.5	<0.5	<0.5	
RPD		0	0	0	
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS				7.8
RPD					
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF				
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF				
RPD					
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF				

		Solvents			SPOCAS
		Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
		mg/kg	mg/kg	mg/kg	-
A03.02	SX_IB_20220424_15_59_SS_Duplicate_EUF				
RPD					
A03.02	SX_IB_20220424_15_58_SS_Primary_EUF				
A03.02	SX_IB_20220424_16_49_SS_Triplicate_ALS				
RPD					
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS				8.0
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS				8.1
RPD					
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS				1
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF				8.0
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS				8.0
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF				
RPD					
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS				
A04.02	SX_OB_20220424_08_06_SS_Duplicate_ALS				
RPD					
A04.02	SX_OB_20220424_08_05_SS_Primary_ALS				
A04.02	SX_OB_20220424_08_07_SS_Triplicate_EUF				
RPD					
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF	<0.5	<0.5	<0.5	
RPD					
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	0	0	0	
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF	<0.5	<0.5	<0.5	
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS				7.7
RPD					
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF				
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF				
RPD					
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF				
A03.02	SX_IB_20220425_15_57_SS_Duplicate_EUF				
RPD					
A03.02	SX_IB_20220425_15_56_SS_Primary_EUF				
A03.02	SX_IB_20220425_15_58_SS_Triplicate_ALS				
RPD					
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS				8.0
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS				8.0
RPD					
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS				0
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS				8.0
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS				8.0
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF				

		Solvents			SPOCAS
		Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
		mg/kg	mg/kg	mg/kg	-
RPD					
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS				
A04.02	SX_OB_20220425_04_18_SS_Duplicate_ALS				
RPD					
A04.02	SX_OB_20220425_04_16_SS_Primary_ALS				
A04.02	SX_OB_20220425_04_19_SS_Triplicate_EUF				
RPD					
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS				7.7
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS				7.8
RPD					1
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS				7.7
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS				7.7
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF				
RPD					
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS				
A03.02	SX_IB_20220425_07_57_SS_Duplicate_ALS				
RPD					
A03.02	SX_IB_20220425_07_56_SS_Primary_ALS				
A03.02	SX_IB_20220425_07_57_SS_Triplicate_EUF				
RPD					
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF	<0.5	<0.5	<0.5	
RPD		0	0	0	
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF	<0.5	<0.5	<0.5	
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS				7.6
RPD					
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF				
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF				
RPD					
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF				
A04.02	SX_OB_20220429_16_13_SS_Duplicate_EUF				
RPD					
A04.02	SX_OB_20220429_16_11_SS_Primary_EUF				
A04.02	SX_OB_20220429_16_14_SS_Triplicate_ALS				
RPD					
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS				8.9
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS				8.9
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF				
RPD					

		Solvents			SPOCAS
		Allyl chloride mg/kg	Carbon disulfide mg/kg	Methyl Ethyl Ketone mg/kg	pH (CaCl2) -
D01.01	SX_IB_20220429_08_12_SS_Primary_ALS				
D01.01	SX_IB_20220429_08_13_SS_Triplicate_EUF				
RPD					
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS				7.8
RPD					
C07.02	SX_OB_20220430_15_58_SS_Primary_EUF				
C07.02	SX_OB_20220430_15_58_SS_Triplicate_ALS				
RPD					
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS				8.9
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS				8.9
RPD					0
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS				8.9
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS				8.9
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF				
RPD					
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS				
D01.01	SX_IB_20220430_07_51_SS_Duplicate_ALS				
RPD					
D01.01	SX_IB_20220430_07_47_SS_Primary_ALS				
D01.01	SX_IB_20220430_07_52_SS_Triplicate_EUF				
RPD					
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF	<0.5	<0.5	<0.5	
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS				7.5
RPD					
C07.02	SX_OB_20220501_16_22_SS_Primary_EUF				
C07.02	SX_OB_20220501_16_24_SS_Triplicate_ALS				
RPD					
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS				8.6
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS				8.6
RPD					0
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS				8.6
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS				8.6
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF				
RPD					
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS				
D01.01	SX_IB_20220501_08_20_SS_Duplicate_ALS				
RPD					
D01.01	SX_IB_20220501_08_17_SS_Primary_ALS				

		Solvents			SPOCAS
		Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
		mg/kg	mg/kg	mg/kg	-
D01.01	SX_IB_20220501_08_21_SS_Triplicate_EUF				
RPD					

*RPDs have only been considered where a concentration is greater than 1 times the E

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for ea

***Interlab Duplicates are matched on a per compound basis as methods vary betwee

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	A04.0220220509153052_01	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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ATTACHMENT B: 95% UCL AVE CALCULATIONS

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Data Sets with Non-Detects											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.19/05/2022 4:29:24 PM									
5	From File		WorkSheet.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Number of Bootstrap Operations		2000									
9												
10												
11	Arsenic											
12												
13	General Statistics											
14	Total Number of Observations				31		Number of Distinct Observations				24	
15							Number of Missing Observations				0	
16	Minimum				20		Mean				56.58	
17	Maximum				540		Median				39	
18	SD				90.46		Std. Error of Mean				16.25	
19	Coefficient of Variation				1.599		Skewness				5.422	
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic				0.289		Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value				0.929		Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic				0.444		Lilliefors GOF Test					
25	5% Lilliefors Critical Value				0.156		Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL				84.16		95% Adjusted-CLT UCL (Chen-1995)				100.2	
31							95% Modified-t UCL (Johnson-1978)				86.79	
32												
33	Gamma GOF Test											
34	A-D Test Statistic				4.552		Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value				0.76		Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic				0.323		Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value				0.16		Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)				1.855		k star (bias corrected MLE)				1.697	
42	Theta hat (MLE)				30.5		Theta star (bias corrected MLE)				33.34	
43	nu hat (MLE)				115		nu star (bias corrected)				105.2	
44	MLE Mean (bias corrected)				56.58		MLE Sd (bias corrected)				43.43	
45							Approximate Chi Square Value (0.05)				82.56	
46	Adjusted Level of Significance				0.0413		Adjusted Chi Square Value				81.44	
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))				72.12		95% Adjusted Gamma UCL (use when n<50)				73.11	
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic				0.702		Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk Critical Value				0.929		Data Not Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
54	Lilliefors Test Statistic					0.213	Lilliefors Lognormal GOF Test					
55	5% Lilliefors Critical Value					0.156	Data Not Lognormal at 5% Significance Level					
56	Data Not Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data					2.996	Mean of logged Data					3.743
60	Maximum of Logged Data					6.292	SD of logged Data					0.559
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL					60.36	90% Chebyshev (MVUE) UCL					64.64
64	95% Chebyshev (MVUE) UCL					71.7	97.5% Chebyshev (MVUE) UCL					81.5
65	99% Chebyshev (MVUE) UCL					100.7						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data do not follow a Discernible Distribution (0.05)											
69												
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL					83.31	95% Jackknife UCL					84.16
72	95% Standard Bootstrap UCL					82.77	95% Bootstrap-t UCL					207.7
73	95% Hall's Bootstrap UCL					199.7	95% Percentile Bootstrap UCL					88.23
74	95% BCA Bootstrap UCL					105.7						
75	90% Chebyshev(Mean, Sd) UCL					105.3	95% Chebyshev(Mean, Sd) UCL					127.4
76	97.5% Chebyshev(Mean, Sd) UCL					158	99% Chebyshev(Mean, Sd) UCL					218.2
77												
78	Suggested UCL to Use											
79	95% Chebyshev (Mean, Sd) UCL					127.4						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86												
87	Copper											
88												
89	General Statistics											
90	Total Number of Observations					31	Number of Distinct Observations					24
91							Number of Missing Observations					0
92	Minimum					47	Mean					68.58
93	Maximum					130	Median					66
94	SD					16.99	Std. Error of Mean					3.052
95	Coefficient of Variation					0.248	Skewness					1.798
96												
97	Normal GOF Test											
98	Shapiro Wilk Test Statistic					0.861	Shapiro Wilk GOF Test					
99	5% Shapiro Wilk Critical Value					0.929	Data Not Normal at 5% Significance Level					
100	Lilliefors Test Statistic					0.138	Lilliefors GOF Test					
101	5% Lilliefors Critical Value					0.156	Data appear Normal at 5% Significance Level					
102	Data appear Approximate Normal at 5% Significance Level											
103												
104	Assuming Normal Distribution											
105	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
106	95% Student's-t UCL					73.76	95% Adjusted-CLT UCL (Chen-1995)					74.65

	A	B	C	D	E	F	G	H	I	J	K	L
160	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
161	Recommendations are based upon data size, data distribution, and skewness.											
162	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
163	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
164												
165												
166	Nickel											
167												
168	General Statistics											
169	Total Number of Observations				31		Number of Distinct Observations				23	
170							Number of Missing Observations				0	
171	Minimum				142		Mean				185.8	
172	Maximum				260		Median				177	
173	SD				30.03		Std. Error of Mean				5.393	
174	Coefficient of Variation				0.162		Skewness				0.943	
175												
176	Normal GOF Test											
177	Shapiro Wilk Test Statistic				0.911		Shapiro Wilk GOF Test					
178	5% Shapiro Wilk Critical Value				0.929		Data Not Normal at 5% Significance Level					
179	Lilliefors Test Statistic				0.202		Lilliefors GOF Test					
180	5% Lilliefors Critical Value				0.156		Data Not Normal at 5% Significance Level					
181	Data Not Normal at 5% Significance Level											
182												
183	Assuming Normal Distribution											
184	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
185	95% Student's-t UCL				194.9		95% Adjusted-CLT UCL (Chen-1995)				195.6	
186							95% Modified-t UCL (Johnson-1978)				195.1	
187												
188	Gamma GOF Test											
189	A-D Test Statistic				0.84		Anderson-Darling Gamma GOF Test					
190	5% A-D Critical Value				0.744		Data Not Gamma Distributed at 5% Significance Level					
191	K-S Test Statistic				0.188		Kolmogorov-Smirnov Gamma GOF Test					
192	5% K-S Critical Value				0.157		Data Not Gamma Distributed at 5% Significance Level					
193	Data Not Gamma Distributed at 5% Significance Level											
194												
195	Gamma Statistics											
196	k hat (MLE)				42.37		k star (bias corrected MLE)				38.29	
197	Theta hat (MLE)				4.385		Theta star (bias corrected MLE)				4.852	
198	nu hat (MLE)				2627		nu star (bias corrected)				2374	
199	MLE Mean (bias corrected)				185.8		MLE Sd (bias corrected)				30.02	
200							Approximate Chi Square Value (0.05)				2262	
201	Adjusted Level of Significance				0.0413		Adjusted Chi Square Value				2256	
202												
203	Assuming Gamma Distribution											
204	95% Approximate Gamma UCL (use when n>=50)				195		95% Adjusted Gamma UCL (use when n<50)				195.5	
205												
206	Lognormal GOF Test											
207	Shapiro Wilk Test Statistic				0.942		Shapiro Wilk Lognormal GOF Test					
208	5% Shapiro Wilk Critical Value				0.929		Data appear Lognormal at 5% Significance Level					
209	Lilliefors Test Statistic				0.178		Lilliefors Lognormal GOF Test					
210	5% Lilliefors Critical Value				0.156		Data Not Lognormal at 5% Significance Level					
211	Data appear Approximate Lognormal at 5% Significance Level											
212												

	A	B	C	D	E	F	G	H	I	J	K	L
213	Lognormal Statistics											
214	Minimum of Logged Data				4.956		Mean of logged Data				5.213	
215	Maximum of Logged Data				5.561		SD of logged Data				0.154	
216												
217	Assuming Lognormal Distribution											
218	95% H-UCL				195		90% Chebyshev (MVUE) UCL				201.2	
219	95% Chebyshev (MVUE) UCL				208.2		97.5% Chebyshev (MVUE) UCL				218	
220	99% Chebyshev (MVUE) UCL				237.1							
221												
222	Nonparametric Distribution Free UCL Statistics											
223	Data appear to follow a Discernible Distribution at 5% Significance Level											
224												
225	Nonparametric Distribution Free UCLs											
226	95% CLT UCL				194.6		95% Jackknife UCL				194.9	
227	95% Standard Bootstrap UCL				194.3		95% Bootstrap-t UCL				196.6	
228	95% Hall's Bootstrap UCL				195.5		95% Percentile Bootstrap UCL				194.9	
229	95% BCA Bootstrap UCL				195.3							
230	90% Chebyshev(Mean, Sd) UCL				202		95% Chebyshev(Mean, Sd) UCL				209.3	
231	97.5% Chebyshev(Mean, Sd) UCL				219.5		99% Chebyshev(Mean, Sd) UCL				239.4	
232												
233	Suggested UCL to Use											
234	95% Student's-t UCL				194.9		or 95% Modified-t UCL				195.1	
235	or 95% H-UCL				195							
236												
237	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
238	Recommendations are based upon data size, data distribution, and skewness.											
239	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
240	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
241												
242	ProUCL computes and outputs H-statistic based UCLs for historical reasons only.											
243	H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.											
244	It is therefore recommended to avoid the use of H-statistic based 95% UCLs.											
245	Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.											
246												

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	A04.0220220509153052_01	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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ATTACHMENT C: LABORATORY CERTIFICATES

Callum McEwan

From: David Lawson <David.Lawson@agonenviro.com.au>
Sent: Tuesday, 26 April 2022 10:38 AM
To: Callum McEwan
Cc: Harry Bacalis
Subject: RE: COC sample delivery
Attachments: 20220426040809-Eurofin-21-Solid_00.xlsx; 20220426041617-Eurofin-21-Water_00.xlsx

Follow Up Flag: Follow up
Flag Status: Completed

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Callum,

Please find revised COCs attached for the samples being delivered today.

Soil samples are on a 3 day TAT.

Regards,

David Lawson
Environmental Scientist

Agon Environmental
+61 4 9041 1004
David.Lawson@agonenviro.com.au

From: David Lawson
Sent: Tuesday, 26 April 2022 10:24 AM
To: CallumMcEwan@eurofins.com
Subject: RE: COC sample delivery

Sorry,

Here are the right ones

David Lawson

Environmental Scientist

Agon Environmental

+61 4 9041 1004

David.Lawson@agonenviro.com.au

From: David Lawson

Sent: Tuesday, 26 April 2022 10:23 AM

To: CallumMcEwan@eurofins.com

Subject: COC sample delivery

Hi Callum,

As discussed, please find COCs attached.

Regards,

agon

ENVIRONMENTAL



David Lawson

Environmental Scientist

Agon Environmental

ADELAIDE | CANBERRA | DARWIN | MELBOURNE

H76, 63-85 Turner St, Port Melbourne VIC 3207

+61 3 8566 1567

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Agon Environmental Pty Ltd - VIC
3/224 Glen Osmond Road
Fullarton
SA 5063



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition
Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection, proficiency testing scheme providers and
reference materials producers reports and certificates.

Attention: **David Lawson**

Report **882647-L**
Project name **20220426040809-Eurofin-21**
Project ID **JC0927**
Received Date **Apr 26, 2022**

Client Sample ID			SX_OB_20220 423_08_14_SS _TriPLICATE_EU F	SX_OB_20220 423_08_20_SS _Primary_EUF	SX_IB_202204 23_12_15_SS _Primary_EUF	SX_OB_20220 423_16_00_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050655	M22- Ap0050656	M22- Ap0050657	M22- Ap0050658
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	4.9	4.9	4.9	4.9
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	89	94	76	93
13C5-PFPeA (surr.)	1	%	92	93	77	104
13C5-PFHxA (surr.)	1	%	88	89	74	90
13C4-PFHpA (surr.)	1	%	90	89	71	90
13C8-PFOA (surr.)	1	%	123	99	103	110
13C5-PFNA (surr.)	1	%	79	87	64	79
13C6-PFDA (surr.)	1	%	97	120	70	88
13C2-PFUnDA (surr.)	1	%	70	77	57	65
13C2-PFDoDA (surr.)	1	%	81	85	66	74
13C2-PFTTeDA (surr.)	1	%	52	59	37	44

Client Sample ID			SX_OB_20220 423_08_14_SS _TriPLICATE_EU F	SX_OB_20220 423_08_20_SS _Primary_EUF	SX_IB_202204 23_12_15_SS _Primary_EUF	SX_OB_20220 423_16_00_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050655	M22- Ap0050656	M22- Ap0050657	M22- Ap0050658
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	93	90	72	77
D3-N-MeFOSA (surr.)	1	%	98	126	120	94
D5-N-EtFOSA (surr.)	1	%	99	134	113	85
D7-N-MeFOSE (surr.)	1	%	74	84	46	53
D9-N-EtFOSE (surr.)	1	%	60	65	51	48
D5-N-EtFOSAA (surr.)	1	%	76	97	49	52
D3-N-MeFOSAA (surr.)	1	%	84	67	69	74
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	111	90	86	105
18O2-PFHxS (surr.)	1	%	88	89	69	79
13C8-PFOS (surr.)	1	%	119	112	84	108
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	63	81	63	65
13C2-6:2 FTSA (surr.)	1	%	63	82	58	70
13C2-8:2 FTSA (surr.)	1	%	69	181	59	70
13C2-10:2 FTSA (surr.)	1	%	71	71	72	53
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 423_16_01_SS Duplicate_EU F	SX_OB_20220 423_20_10_SS Primary_EUF	SX_IB_202204 24_00_09_SS Primary_EUF	SX_OB_20220 424_04_14_SS Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050659	M22- Ap0050660	M22- Ap0050661	M22- Ap0050662
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	4.9	4.9	4.9	4.9
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	101	90	99	93
13C5-PFPeA (surr.)	1	%	107	90	109	108
13C5-PFHxA (surr.)	1	%	98	89	95	92
13C4-PFHpA (surr.)	1	%	98	91	98	88
13C8-PFOA (surr.)	1	%	138	111	85	106
13C5-PFNA (surr.)	1	%	87	76	95	82
13C6-PFDA (surr.)	1	%	108	109	140	108
13C2-PFUnDA (surr.)	1	%	81	78	116	68
13C2-PFDoDA (surr.)	1	%	94	88	145	68
13C2-PFTTeDA (surr.)	1	%	51	84	122	54
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	95	85	101	87
D3-N-MeFOSA (surr.)	1	%	90	95	139	82
D5-N-EtFOSA (surr.)	1	%	91	82	134	79
D7-N-MeFOSE (surr.)	1	%	81	77	74	62
D9-N-EtFOSE (surr.)	1	%	58	55	73	51
D5-N-EtFOSAA (surr.)	1	%	79	113	96	54
D3-N-MeFOSAA (surr.)	1	%	76	93	132	87

Client Sample ID			SX_OB_20220 423_16_01_SS Duplicate_EU F	SX_OB_20220 423_20_10_SS Primary_EUF	SX_IB_202204 24_00_09_SS Primary_EUF	SX_OB_20220 424_04_14_SS Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050659	M22- Ap0050660	M22- Ap0050661	M22- Ap0050662
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	119	115	87	110
18O2-PFHxS (surr.)	1	%	103	91	99	85
13C8-PFOS (surr.)	1	%	118	102	134	99
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	77	62	80	65
13C2-6:2 FTSA (surr.)	1	%	67	62	96	62
13C2-8:2 FTSA (surr.)	1	%	76	81	114	69
13C2-10:2 FTSA (surr.)	1	%	48	80	111	59
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 424_08_07_SS TriPLICATE_EU F	SX_IB_202204 24_08_14_SS Primary_EUF	SX_OB_20220 424_12_10_SS Primary_EUF	SX_IB_202204 24_15_58_SS Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050663	M22- Ap0050664	M22- Ap0050665	M22- Ap0050666
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	4.9	4.9	4.9	4.9
pH (off)	0.1	pH Units	5.2	5.1	5.1	5.1

Client Sample ID			SX_OB_20220 424_08_07_SS _TriPLICATE_EU F	SX_IB_202204 24_08_14_SS _Primary_EUF	SX_OB_20220 424_12_10_SS _Primary_EUF	SX_IB_202204 24_15_58_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050663	M22- Ap0050664	M22- Ap0050665	M22- Ap0050666
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	91	96	93	84
13C5-PFPeA (surr.)	1	%	98	95	99	99
13C5-PFHxA (surr.)	1	%	88	85	90	75
13C4-PFHpA (surr.)	1	%	85	91	93	78
13C8-PFOA (surr.)	1	%	104	75	117	62
13C5-PFNA (surr.)	1	%	76	79	79	72
13C6-PFDA (surr.)	1	%	86	96	80	104
13C2-PFUnDA (surr.)	1	%	49	76	69	73
13C2-PFDoDA (surr.)	1	%	41	75	75	82
13C2-PFTTeDA (surr.)	1	%	18	52	52	59
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	83	92	77	86
D3-N-MeFOSA (surr.)	1	%	37	80	37	94
D5-N-EtFOSA (surr.)	1	%	29	82	44	103
D7-N-MeFOSE (surr.)	1	%	48	79	44	77
D9-N-EtFOSE (surr.)	1	%	44	60	42	58
D5-N-EtFOSAA (surr.)	1	%	35	52	73	69
D3-N-MeFOSAA (surr.)	1	%	52	76	85	64
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 424_08_07_SS _TriPLICATE_EU F	SX_IB_202204 24_08_14_SS _Primary_EUF	SX_OB_20220 424_12_10_SS _Primary_EUF	SX_IB_202204 24_15_58_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050663	M22- Ap0050664	M22- Ap0050665	M22- Ap0050666
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	109	82	111	69
18O2-PFHxS (surr.)	1	%	77	85	83	76
13C8-PFOS (surr.)	1	%	88	112	94	103
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	79	82	70	73
13C2-6:2 FTSA (surr.)	1	%	66	87	57	102
13C2-8:2 FTSA (surr.)	1	%	54	173	61	106
13C2-10:2 FTSA (surr.)	1	%	32	59	91	71
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202204 24_15_59_SS _Duplicate_EUF	SX_IB_202204 24_19_58_SS _Primary_EUF	SX_IB_202204 25_03_50_SS _Primary_EUF	SX_IB_202204 25_03_59_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050667	M22- Ap0050668	M22- Ap0050669	M22- Ap0050670
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	4.9	4.9	4.9	4.9
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_IB_202204_24_15_59_SS_Duplicate_EUF	SX_IB_202204_24_19_58_SS_Primary_EUF	SX_IB_202204_25_03_50_SS_Primary_EUF	SX_IB_202204_25_03_59_SS_Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22-Ap0050667	M22-Ap0050668	M22-Ap0050669	M22-Ap0050670
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	94	91	97	97
13C5-PFPeA (surr.)	1	%	91	101	96	100
13C5-PFHxA (surr.)	1	%	82	85	88	87
13C4-PFHpA (surr.)	1	%	91	93	92	93
13C8-PFOA (surr.)	1	%	75	75	70	73
13C5-PFNA (surr.)	1	%	89	93	82	89
13C6-PFDA (surr.)	1	%	116	132	90	106
13C2-PFUnDA (surr.)	1	%	94	107	65	70
13C2-PFDoDA (surr.)	1	%	110	144	62	72
13C2-PFTeDA (surr.)	1	%	133	134	39	61
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	89	93	81	92
D3-N-MeFOSA (surr.)	1	%	106	131	107	108
D5-N-EtFOSA (surr.)	1	%	109	129	116	112
D7-N-MeFOSE (surr.)	1	%	51	79	47	51
D9-N-EtFOSE (surr.)	1	%	63	67	57	63
D5-N-EtFOSAA (surr.)	1	%	70	115	93	72
D3-N-MeFOSAA (surr.)	1	%	71	115	59	74
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	78	82	80	81
18O2-PFHxS (surr.)	1	%	89	92	87	92
13C8-PFOS (surr.)	1	%	115	119	97	106

Client Sample ID			SX_IB_202204_24_15_59_SS_Duplicate_EUF	SX_IB_202204_24_19_58_SS_Primary_EUF	SX_IB_202204_25_03_50_SS_Primary_EUF	SX_IB_202204_25_03_59_SS_Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22-Ap0050667	M22-Ap0050668	M22-Ap0050669	M22-Ap0050670
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	79	77	81	81
13C2-6:2 FTSA (surr.)	1	%	99	107	101	107
13C2-8:2 FTSA (surr.)	1	%	110	128	173	117
13C2-10:2 FTSA (surr.)	1	%	97	138	58	61
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_202204_25_04_19_SS_Triplicate_EUF	SX_IB_202204_25_07_57_SS_Triplicate_EUF	SX_IB_202204_25_08_04_SS_Primary_EUF	SX_IB_202204_25_11_57_SS_Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22-Ap0050671	M22-Ap0050672	M22-Ap0050673	M22-Ap0050674
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	4.9	4.9	4.9	4.9
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	97	93	94	91
13C5-PFPeA (surr.)	1	%	110	95	98	100
13C5-PFHxA (surr.)	1	%	94	89	87	88

Client Sample ID			SX_OB_20220 425_04_19_SS TriPLICATE_EU F	SX_IB_202204 25_07_57_SS TriPLICATE_EUF	SX_IB_202204 25_08_04_SS Primary_EUF	SX_IB_202204 25_11_57_SS Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050671	M22- Ap0050672	M22- Ap0050673	M22- Ap0050674
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	95	94	96	89
13C8-PFOA (surr.)	1	%	111	80	87	72
13C5-PFNA (surr.)	1	%	76	92	90	80
13C6-PFDA (surr.)	1	%	99	127	125	98
13C2-PFUnDA (surr.)	1	%	69	99	77	78
13C2-PFDoDA (surr.)	1	%	75	116	100	96
13C2-PFTeDA (surr.)	1	%	55	113	68	90
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	89	87	101	80
D3-N-MeFOSA (surr.)	1	%	85	114	130	71
D5-N-EtFOSA (surr.)	1	%	93	100	138	69
D7-N-MeFOSE (surr.)	1	%	58	65	87	66
D9-N-EtFOSE (surr.)	1	%	53	66	71	54
D5-N-EtFOSAA (surr.)	1	%	52	112	74	80
D3-N-MeFOSAA (surr.)	1	%	49	142	74	93
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	113	83	85	86
18O2-PFHxS (surr.)	1	%	86	94	87	85
13C8-PFOS (surr.)	1	%	120	120	125	102
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	74	75	80	72

Client Sample ID			SX_OB_20220 425_04_19_SS TriPLICATE_EU F	SX_IB_202204 25_07_57_SS TriPLICATE_EUF	SX_IB_202204 25_08_04_SS Primary_EUF	SX_IB_202204 25_11_57_SS Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050671	M22- Ap0050672	M22- Ap0050673	M22- Ap0050674
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-6:2 FTSA (surr.)	1	%	65	87	108	79
13C2-8:2 FTSA (surr.)	1	%	69	120	107	118
13C2-10:2 FTSA (surr.)	1	%	73	129	64	108
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202204 25_15_56_SS Primary_EUF	SX_IB_202204 25_15_57_SS Duplicate_EUF	SX_IB_202204 25_19_53_SS Primary_EUF	SX_IB_202204 25_23_57_SS Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0050675	M22- Ap0050676	M22- Ap0050677	M22- Ap0050678
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	4.9	4.9	4.9	4.9
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	92	98	91	92
13C5-PFPeA (surr.)	1	%	84	98	101	89
13C5-PFHxA (surr.)	1	%	86	90	85	81
13C4-PFHpA (surr.)	1	%	88	95	92	87
13C8-PFOA (surr.)	1	%	69	66	73	58
13C5-PFNA (surr.)	1	%	78	90	80	79
13C6-PFDA (surr.)	1	%	83	121	99	107
13C2-PFUnDA (surr.)	1	%	73	101	81	80
13C2-PFDoDA (surr.)	1	%	70	136	83	108
13C2-PFTeDA (surr.)	1	%	66	107	87	122

Client Sample ID			SX_IB_202204_25_15_56_SS_Primary_EUF	SX_IB_202204_25_15_57_SS_Duplicate_EUF	SX_IB_202204_25_19_53_SS_Primary_EUF	SX_IB_202204_25_23_57_SS_Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22-Ap0050675	M22-Ap0050676	M22-Ap0050677	M22-Ap0050678
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	69	92	83	76
D3-N-MeFOSA (surr.)	1	%	70	140	96	103
D5-N-EtFOSA (surr.)	1	%	68	127	92	100
D7-N-MeFOSE (surr.)	1	%	53	70	48	64
D9-N-EtFOSE (surr.)	1	%	46	68	58	58
D5-N-EtFOSAA (surr.)	1	%	95	105	102	75
D3-N-MeFOSAA (surr.)	1	%	88	126	89	107
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	79	87	81	76
18O2-PFHxS (surr.)	1	%	78	92	85	76
13C8-PFOS (surr.)	1	%	90	114	105	104
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	77	83	76	84
13C2-6:2 FTSA (surr.)	1	%	79	114	87	99
13C2-8:2 FTSA (surr.)	1	%	166	121	102	102
13C2-10:2 FTSA (surr.)	1	%	85	137	83	79
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202204 26_03_55_SS_ Primary_EUF	SX_OB_20220 423_08_14_SS TriPLICATE_EU F	SX_OB_20220 423_08_20_SS Primary_EUF	SX_IB_202204 23_12_15_SS_ Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050679	M22- Ap0050680	M22- Ap0050681	M22- Ap0050682
Date Sampled			Apr 26, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	4.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	5.1	8.8	9.2	9.8
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	98	81	86	86
13C5-PFPeA (surr.)	1	%	88	90	84	95
13C5-PFHxA (surr.)	1	%	86	84	84	91
13C4-PFHpA (surr.)	1	%	93	89	86	93
13C8-PFOA (surr.)	1	%	54	113	100	112
13C5-PFNA (surr.)	1	%	90	81	91	86
13C6-PFDA (surr.)	1	%	124	98	117	115
13C2-PFUnDA (surr.)	1	%	88	78	79	88
13C2-PFDoDA (surr.)	1	%	89	79	103	106
13C2-PFTeDA (surr.)	1	%	67	55	107	96
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	97	75	75	88
D3-N-MeFOSA (surr.)	1	%	131	96	94	97
D5-N-EtFOSA (surr.)	1	%	137	79	90	69
D7-N-MeFOSE (surr.)	1	%	93	39	46	62
D9-N-EtFOSE (surr.)	1	%	68	39	50	46
D5-N-EtFOSAA (surr.)	1	%	92	56	125	71
D3-N-MeFOSAA (surr.)	1	%	98	94	92	79

Client Sample ID			SX_IB_202204 26_03_55_SS_ Primary_EUF	SX_OB_20220 423_08_14_SS TriPLICATE_EU F	SX_OB_20220 423_08_20_SS Primary_EUF	SX_IB_202204 23_12_15_SS_ Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050679	M22- Ap0050680	M22- Ap0050681	M22- Ap0050682
Date Sampled			Apr 26, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	84	107	93	113
18O2-PFHxS (surr.)	1	%	90	84	83	87
13C8-PFOS (surr.)	1	%	112	109	121	101
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	84	58	78	68
13C2-6:2 FTSA (surr.)	1	%	70	53	76	60
13C2-8:2 FTSA (surr.)	1	%	116	64	182	79
13C2-10:2 FTSA (surr.)	1	%	69	64	86	102
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202204 423_16_00_SS_ Primary_EUF	SX_OB_20220 423_16_01_SS Duplicate_EU F	SX_OB_20220 423_20_10_SS Primary_EUF	SX_IB_202204 24_00_09_SS_ Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050683	M22- Ap0050684	M22- Ap0050685	M22- Ap0050686
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	9.2	9.1	9.1	9.2

Client Sample ID			SX_OB_20220 423_16_00_SS _Primary_EUF	SX_OB_20220 423_16_01_SS _Duplicate_EU F	SX_OB_20220 423_20_10_SS _Primary_EUF	SX_IB_202204 24_00_09_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050683	M22- Ap0050684	M22- Ap0050685	M22- Ap0050686
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	91	77	65	67
13C5-PFPeA (surr.)	1	%	108	84	63	69
13C5-PFHxA (surr.)	1	%	97	81	70	71
13C4-PFHpA (surr.)	1	%	97	82	74	71
13C8-PFOA (surr.)	1	%	125	112	91	71
13C5-PFNA (surr.)	1	%	94	81	67	72
13C6-PFDA (surr.)	1	%	126	113	86	93
13C2-PFUnDA (surr.)	1	%	106	98	70	72
13C2-PFDoDA (surr.)	1	%	127	108	81	96
13C2-PFTeDA (surr.)	1	%	85	108	55	66
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	96	83	72	76
D3-N-MeFOSA (surr.)	1	%	89	89	96	75
D5-N-EtFOSA (surr.)	1	%	82	90	92	79
D7-N-MeFOSE (surr.)	1	%	58	54	39	34
D9-N-EtFOSE (surr.)	1	%	53	61	41	52
D5-N-EtFOSAA (surr.)	1	%	123	90	71	74
D3-N-MeFOSAA (surr.)	1	%	117	114	81	111
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 423_16_00_SS _Primary_EUF	SX_OB_20220 423_16_01_SS _Duplicate_EU F	SX_OB_20220 423_20_10_SS _Primary_EUF	SX_IB_202204 24_00_09_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050683	M22- Ap0050684	M22- Ap0050685	M22- Ap0050686
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	119	106	90	67
18O2-PFHxS (surr.)	1	%	98	83	69	78
13C8-PFOS (surr.)	1	%	123	118	101	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	68	57	48	56
13C2-6:2 FTSA (surr.)	1	%	65	54	44	54
13C2-8:2 FTSA (surr.)	1	%	103	71	54	72
13C2-10:2 FTSA (surr.)	1	%	136	86	74	98
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 424_04_14_SS _Primary_EUF	SX_OB_20220 424_08_07_SS _Triplicate_EU F	SX_IB_202204 24_08_14_SS _Primary_EUF	SX_OB_20220 424_12_10_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050687	M22- Ap0050688	M22- Ap0050689	M22- Ap0050690
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	9.0	9.2	9.0	9.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 424_04_14_SS _Primary_EUF	SX_OB_20220 424_08_07_SS _Triplicate_EU F	SX_IB_202204 24_08_14_SS _Primary_EUF	SX_OB_20220 424_12_10_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050687	M22- Ap0050688	M22- Ap0050689	M22- Ap0050690
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	68	59	86	91
13C5-PFPeA (surr.)	1	%	65	68	88	89
13C5-PFHxA (surr.)	1	%	74	63	77	96
13C4-PFHpA (surr.)	1	%	72	60	86	97
13C8-PFOA (surr.)	1	%	95	76	57	124
13C5-PFNA (surr.)	1	%	66	53	83	98
13C6-PFDA (surr.)	1	%	84	84	128	129
13C2-PFUnDA (surr.)	1	%	70	62	87	95
13C2-PFDoDA (surr.)	1	%	92	84	132	95
13C2-PFTeDA (surr.)	1	%	49	126	113	64
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	69	69	94	87
D3-N-MeFOSA (surr.)	1	%	129	88	97	67
D5-N-EtFOSA (surr.)	1	%	128	96	83	59
D7-N-MeFOSE (surr.)	1	%	59	61	58	52
D9-N-EtFOSE (surr.)	1	%	46	51	53	45
D5-N-EtFOSAA (surr.)	1	%	73	75	111	102
D3-N-MeFOSAA (surr.)	1	%	77	93	104	123
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	89	81	79	121
18O2-PFHxS (surr.)	1	%	70	61	92	96
13C8-PFOS (surr.)	1	%	99	80	121	131

Client Sample ID			SX_OB_20220 424_04_14_SS _Primary_EUF	SX_OB_20220 424_08_07_SS _TriPLICATE_EU F	SX_IB_202204 24_08_14_SS _Primary_EUF	SX_OB_20220 424_12_10_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050687	M22- Ap0050688	M22- Ap0050689	M22- Ap0050690
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	46	41	80	63
13C2-6:2 FTSA (surr.)	1	%	43	72	127	63
13C2-8:2 FTSA (surr.)	1	%	54	47	99	93
13C2-10:2 FTSA (surr.)	1	%	63	81	100	98
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202204 24_15_58_SS _Primary_EUF	SX_IB_202204 24_15_59_SS _Duplicate_EUF	SX_IB_202204 24_19_58_SS _Primary_EUF	SX_IB_202204 25_03_50_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050691	M22- Ap0050692	M22- Ap0050693	M22- Ap0050694
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	8.9	9.0	9.0	9.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	78	81	79	89

Client Sample ID			SX_IB_202204 24_15_58_SS Primary_EUF	SX_IB_202204 24_15_59_SS Duplicate_EUF	SX_IB_202204 24_19_58_SS Primary_EUF	SX_IB_202204 25_03_50_SS Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050691	M22- Ap0050692	M22- Ap0050693	M22- Ap0050694
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	80	82	84	99
13C5-PFHxA (surr.)	1	%	85	77	83	95
13C4-PFHpA (surr.)	1	%	89	86	87	99
13C8-PFOA (surr.)	1	%	67	63	67	81
13C5-PFNA (surr.)	1	%	84	79	94	101
13C6-PFDA (surr.)	1	%	121	99	119	134
13C2-PFUnDA (surr.)	1	%	107	71	94	114
13C2-PFDoDA (surr.)	1	%	175	87	112	139
13C2-PFTeDA (surr.)	1	%	113	52	107	131
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	100	81	95	101
D3-N-MeFOSA (surr.)	1	%	125	127	138	122
D5-N-EtFOSA (surr.)	1	%	82	139	132	122
D7-N-MeFOSE (surr.)	1	%	53	59	63	72
D9-N-EtFOSE (surr.)	1	%	75	48	57	62
D5-N-EtFOSAA (surr.)	1	%	134	86	72	115
D3-N-MeFOSAA (surr.)	1	%	123	97	89	110
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	76	77	85	97
18O2-PFHxS (surr.)	1	%	85	87	91	104
13C8-PFOS (surr.)	1	%	125	102	117	142

Client Sample ID			SX_IB_202204_24_15_58_SS_Primary_EUF	SX_IB_202204_24_15_59_SS_Duplicate_EUF	SX_IB_202204_24_19_58_SS_Primary_EUF	SX_IB_202204_25_03_50_SS_Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ap0050691	M22-Ap0050692	M22-Ap0050693	M22-Ap0050694
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	71	73	70	79
13C2-6:2 FTSA (surr.)	1	%	67	59	71	105
13C2-8:2 FTSA (surr.)	1	%	86	97	168	125
13C2-10:2 FTSA (surr.)	1	%	131	75	131	145
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202204_25_03_59_SS_Primary_EUF	SX_OB_202204_25_04_19_SS_Triplicate_EUF	SX_IB_202204_25_07_57_SS_Triplicate_EUF	SX_IB_202204_25_08_04_SS_Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ap0050695	M22-Ap0050696	M22-Ap0050697	M22-Ap0050698
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	9.1	9.3	9.1	9.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	85	86	84	87

Client Sample ID			SX_IB_202204 25_03_59_SS_ Primary_EUF	SX_OB_20220 425_04_19_SS _TriPLICATE_EU F	SX_IB_202204 25_07_57_SS_ TriPLICATE_EUF	SX_IB_202204 25_08_04_SS_ Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050695	M22- Ap0050696	M22- Ap0050697	M22- Ap0050698
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	102	104	82	79
13C5-PFHxA (surr.)	1	%	84	95	85	83
13C4-PFHpA (surr.)	1	%	94	95	90	91
13C8-PFOA (surr.)	1	%	81	131	90	70
13C5-PFNA (surr.)	1	%	91	85	86	85
13C6-PFDA (surr.)	1	%	131	124	127	120
13C2-PFUnDA (surr.)	1	%	88	96	92	104
13C2-PFDoDA (surr.)	1	%	108	112	100	131
13C2-PFTeDA (surr.)	1	%	93	78	80	112
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	87	83	85	90
D3-N-MeFOSA (surr.)	1	%	83	81	74	77
D5-N-EtFOSA (surr.)	1	%	80	71	68	130
D7-N-MeFOSE (surr.)	1	%	68	60	34	54
D9-N-EtFOSE (surr.)	1	%	54	49	45	62
D5-N-EtFOSAA (surr.)	1	%	105	95	104	132
D3-N-MeFOSAA (surr.)	1	%	122	102	124	102
Perfluoroalkyl sulfonic acids (PFSAAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	85	119	86	83
18O2-PFHxS (surr.)	1	%	103	103	84	97
13C8-PFOS (surr.)	1	%	123	126	125	136

Client Sample ID			SX_IB_202204_25_03_59_SS_Primary_EUF	SX_OB_20220425_04_19_SS_Triplicate_EUF	SX_IB_202204_25_07_57_SS_Triplicate_EUF	SX_IB_202204_25_08_04_SS_Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ap0050695	M22-Ap0050696	M22-Ap0050697	M22-Ap0050698
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	71	62	68	81
13C2-6:2 FTSA (surr.)	1	%	89	66	86	104
13C2-8:2 FTSA (surr.)	1	%	125	90	103	108
13C2-10:2 FTSA (surr.)	1	%	101	82	99	160
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202204_25_11_57_SS_Primary_EUF	SX_IB_202204_25_15_56_SS_Primary_EUF	SX_IB_202204_25_15_57_SS_Duplicate_EUF	SX_IB_202204_25_19_53_SS_Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ap0050699	M22-Ap0050700	M22-Ap0050701	M22-Ap0050702
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	9.1	8.9	9.1	9.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	75	82	85	79

Client Sample ID			SX_IB_202204 25_11_57_SS Primary_EUF	SX_IB_202204 25_15_56_SS Primary_EUF	SX_IB_202204 25_15_57_SS Duplicate_EUF	SX_IB_202204 25_19_53_SS Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050699	M22- Ap0050700	M22- Ap0050701	M22- Ap0050702
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	88	85	97	88
13C5-PFHxA (surr.)	1	%	77	79	87	79
13C4-PFHpA (surr.)	1	%	82	87	90	92
13C8-PFOA (surr.)	1	%	71	63	75	72
13C5-PFNA (surr.)	1	%	85	89	84	86
13C6-PFDA (surr.)	1	%	114	123	126	115
13C2-PFUnDA (surr.)	1	%	83	100	90	87
13C2-PFDoDA (surr.)	1	%	102	108	104	100
13C2-PFTeDA (surr.)	1	%	72	94	91	90
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	73	88	96	80
D3-N-MeFOSA (surr.)	1	%	98	123	129	78
D5-N-EtFOSA (surr.)	1	%	91	117	124	79
D7-N-MeFOSE (surr.)	1	%	57	45	66	71
D9-N-EtFOSE (surr.)	1	%	42	54	52	58
D5-N-EtFOSAA (surr.)	1	%	79	129	97	96
D3-N-MeFOSAA (surr.)	1	%	78	137	128	103
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	77	78	86	80
18O2-PFHxS (surr.)	1	%	83	86	96	94
13C8-PFOS (surr.)	1	%	103	121	135	113

Client Sample ID			SX_IB_202204_25_11_57_SS_Primary_EUF	SX_IB_202204_25_15_56_SS_Primary_EUF	SX_IB_202204_25_15_57_SS_Duplicate_EUF	SX_IB_202204_25_19_53_SS_Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ap0050699	M22-Ap0050700	M22-Ap0050701	M22-Ap0050702
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	65	78	75	69
13C2-6:2 FTSA (surr.)	1	%	73	95	104	67
13C2-8:2 FTSA (surr.)	1	%	168	102	104	113
13C2-10:2 FTSA (surr.)	1	%	86	103	79	99
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202204_25_23_57_SS_Primary_EUF	SX_IB_202204_26_03_55_SS_Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ap0050703	M22-Ap0050704
Date Sampled			Apr 25, 2022	Apr 26, 2022
Test/Reference	LOR	Unit		
AUS Leaching Procedure				
Leachate Fluid ^{C01}		comment	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9
pH (off)	0.1	pH Units	9.3	9.3
Perfluoroalkyl carboxylic acids (PFCA)				
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	80	87
13C5-PFPeA (surr.)	1	%	77	82

Client Sample ID			SX_IB_202204 25_23_57_SS Primary_EUF	SX_IB_202204 26_03_55_SS Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050703	M22- Ap0050704
Date Sampled			Apr 25, 2022	Apr 26, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
13C5-PFHxA (surr.)	1	%	74	80
13C4-PFHpA (surr.)	1	%	85	86
13C8-PFOA (surr.)	1	%	52	61
13C5-PFNA (surr.)	1	%	98	89
13C6-PFDA (surr.)	1	%	126	117
13C2-PFUnDA (surr.)	1	%	96	105
13C2-PFDoDA (surr.)	1	%	111	136
13C2-PFTeDA (surr.)	1	%	100	91
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	86	86
D3-N-MeFOSA (surr.)	1	%	96	140
D5-N-EtFOSA (surr.)	1	%	92	134
D7-N-MeFOSE (surr.)	1	%	58	80
D9-N-EtFOSE (surr.)	1	%	53	51
D5-N-EtFOSAA (surr.)	1	%	133	100
D3-N-MeFOSAA (surr.)	1	%	120	138
Perfluoroalkyl sulfonic acids (PFSA)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	77	82
18O2-PFHxS (surr.)	1	%	79	102
13C8-PFOS (surr.)	1	%	124	108
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01

Client Sample ID			SX_IB_202204 25_23_57_SS_ Primary_EUF	SX_IB_202204 26_03_55_SS_ Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0050703	M22- Ap0050704
Date Sampled			Apr 25, 2022	Apr 26, 2022
Test/Reference	LOR	Unit		
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
13C2-4:2 FTSA (surr.)	1	%	74	86
13C2-6:2 FTSA (surr.)	1	%	130	120
13C2-8:2 FTSA (surr.)	1	%	101	115
13C2-10:2 FTSA (surr.)	1	%	111	105
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
AUS Leaching Procedure			
pH (initial) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Apr 27, 2022	0 Days
pH (Leachate fluid) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Apr 27, 2022	0 Days
pH (off) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Apr 27, 2022	0 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 27, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 27, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 27, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 27, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 26, 2022	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_OB_20220423_08_14_S_S_Triplicate_EUF	Apr 23, 2022	8:14AM	Soil	M22-Ap0050628		X	X	X
2	SX_OB_20220423_08_20_S_S_Primary_EUF	Apr 23, 2022	8:20AM	Soil	M22-Ap0050629		X	X	X
3	SX_IB_20220423_12_15_SS_Primary_EUF	Apr 23, 2022	12:15PM	Soil	M22-Ap0050630		X	X	X
4	SX_OB_20220423_04_00_S_S_Primary_EUF	Apr 23, 2022	4:00PM	Soil	M22-		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	423_16_00_S S_Primary_EU F				Ap0050631				
5	SX_OB_20220 423_16_01_S S_Duplicate_E UF	Apr 23, 2022	4:01PM	Soil	M22- Ap0050632		X	X	X
6	SX_OB_20220 423_16_21_S R_Rinsate_EU F	Apr 23, 2022	4:21PM	Water	M22- Ap0050633			X	
7	SX_OB_20220 423_16_24_S B_Blank_EUF	Apr 23, 2022	4:24PM	Water	M22- Ap0050634			X	

Company Name: Agon Environmental Pty Ltd - VIC
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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
8	SX_OB_20220423_20_10_S_S_Primary_EUF	Apr 23, 2022	8:19PM	Soil	M22-Ap0050635		X	X	X
9	SX_IB_20220424_00_09_SS_Primary_EUF	Apr 24, 2022	12:09AM	Soil	M22-Ap0050636		X	X	X
10	SX_OB_20220424_04_14_S_S_Primary_EUF	Apr 24, 2022	4:14AM	Soil	M22-Ap0050637		X	X	X
11	SX_OB_20220424_08_07_S_S_Triplicate_E	Apr 24, 2022	8:07AM	Soil	M22-Ap0050638		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	UF								
12	SX_IB_20220424_08_14_SS_Primary_EUF	Apr 24, 2022	8:14AM	Soil	M22-Ap0050639		X	X	X
13	SX_OB_20220424_12_10_SS_Primary_EUF	Apr 24, 2022	12:10PM	Soil	M22-Ap0050640		X	X	X
14	SX_IB_20220424_15_58_SS_Primary_EUF	Apr 24, 2022	3:58PM	Soil	M22-Ap0050641		X	X	X
15	SX_IB_20220424_15_59_SS_Duplicate_EU	Apr 24, 2022	3:59PM	Soil	M22-Ap0050642		X	X	X

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Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Duplicate_EU F								
16	SX_IB_202204 24_19_58_SS _Primary_EUF	Apr 24, 2022	7:58PM	Soil	M22- Ap0050643		X	X	X
17	SX_IB_202204 25_03_50_SS _Primary_EUF	Apr 25, 2022	10:30AM	Soil	M22- Ap0050644		X	X	X
18	SX_IB_202204 25_03_59_SS _Primary_EUF	Apr 25, 2022	4:19AM	Soil	M22- Ap0050645		X	X	X
19	SX_OB_20220 425_04_19_S S_Triplicate_E	Apr 25, 2022	4:19AM	Soil	M22- Ap0050646		X	X	X

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Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	UF								
20	SX_IB_20220425_07_57_SS_Triplicate_EU_F	Apr 25, 2022	7:57AM	Soil	M22-Ap0050647		X	X	X
21	SX_IB_20220425_08_04_SS_Primary_EUF	Apr 25, 2022	8:04AM	Soil	M22-Ap0050648		X	X	X
22	SX_IB_20220425_11_57_SS_Primary_EUF	Apr 25, 2022	11:57AM	Soil	M22-Ap0050649		X	X	X
23	SX_IB_20220425_15_56_SS_Primary_EUF	Apr 25, 2022	3:56PM	Soil	M22-Ap0050650		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
24	SX_IB_20220425_15_57_SS_Duplicate_EUF	Apr 25, 2022	3:57PM	Soil	M22-Ap0050651		X	X	X
25	SX_IB_20220425_19_53_SS_Primary_EUF	Apr 25, 2022	7:53PM	Soil	M22-Ap0050652		X	X	X
26	SX_IB_20220425_23_57_SS_Primary_EUF	Apr 25, 2022	11:57PM	Soil	M22-Ap0050653		X	X	X
27	SX_IB_20220426_03_55_SS_Primary_EUF	Apr 26, 2022	3:55AM	Soil	M22-Ap0050654		X	X	X
28	SX_OB_20220	Apr 23, 2022	8:14AM	AUS Leachate	M22-	X		X	

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Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	423_08_14_S S_Triplicate_E UF			- pH 5.0	Ap0050655				
29	SX_OB_20220 423_08_20_S S_Primary_EU F	Apr 23, 2022	8:20AM	AUS Leachate - pH 5.0	M22- Ap0050656	X		X	
30	SX_IB_202204 23_12_15_SS _Primary_EUF	Apr 23, 2022	12:15PM	AUS Leachate - pH 5.0	M22- Ap0050657	X		X	
31	SX_OB_20220 423_16_00_S S_Primary_EU F	Apr 23, 2022	4:00PM	AUS Leachate - pH 5.0	M22- Ap0050658	X		X	

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Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
32	SX_OB_20220423_16_01_S_S_Duplicate_EUF	Apr 23, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ap0050659	X		X	
33	SX_OB_20220423_20_10_S_S_Primary_EUF	Apr 23, 2022	8:19PM	AUS Leachate - pH 5.0	M22-Ap0050660	X		X	
34	SX_IB_20220424_00_09_SS_Primary_EUF	Apr 24, 2022	12:09AM	AUS Leachate - pH 5.0	M22-Ap0050661	X		X	
35	SX_OB_20220424_04_14_S_S_Primary_EUF	Apr 24, 2022	4:14AM	AUS Leachate - pH 5.0	M22-Ap0050662	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	F								
36	SX_OB_20220424_08_07_S_S_Triplicate_EUF	Apr 24, 2022	8:07AM	AUS Leachate - pH 5.0	M22-Ap0050663	X		X	
37	SX_IB_20220424_08_14_SS_Primary_EUF	Apr 24, 2022	8:14AM	AUS Leachate - pH 5.0	M22-Ap0050664	X		X	
38	SX_OB_20220424_12_10_S_S_Primary_EUF	Apr 24, 2022	12:10PM	AUS Leachate - pH 5.0	M22-Ap0050665	X		X	
39	SX_IB_20220424_15_58_SS	Apr 24, 2022	3:58PM	AUS Leachate - pH 5.0	M22-Ap0050666	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	24_15_58_SS _Primary_EUF			- pH 5.0	Ap0050666				
40	SX_IB_202204 24_15_59_SS _Duplicate_EU F	Apr 24, 2022	3:59PM	AUS Leachate - pH 5.0	M22- Ap0050667	X		X	
41	SX_IB_202204 24_19_58_SS _Primary_EUF	Apr 24, 2022	7:58PM	AUS Leachate - pH 5.0	M22- Ap0050668	X		X	
42	SX_IB_202204 25_03_50_SS _Primary_EUF	Apr 25, 2022	10:30AM	AUS Leachate - pH 5.0	M22- Ap0050669	X		X	
43	SX_IB_202204 25_03_59_SS	Apr 25, 2022	4:19AM	AUS Leachate - pH 5.0	M22- Ap0050670	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF								
44	SX_OB_20220425_04_19_SS_Triplicate_EUF	Apr 25, 2022	4:19AM	AUS Leachate - pH 5.0	M22-Ap0050671	X		X	
45	SX_IB_20220425_07_57_SS_Triplicate_EUF	Apr 25, 2022	7:57AM	AUS Leachate - pH 5.0	M22-Ap0050672	X		X	
46	SX_IB_20220425_08_04_SS_Primary_EUF	Apr 25, 2022	8:04AM	AUS Leachate - pH 5.0	M22-Ap0050673	X		X	
47	SX_IB_20220425_11_57_SS	Apr 25, 2022	11:57AM	AUS Leachate - pH 5.0	M22-Ap0050674	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	25_11_57_SS _Primary_EUF			- pH 5.0	Ap0050674				
48	SX_IB_202204 25_15_56_SS _Primary_EUF	Apr 25, 2022	3:56PM	AUS Leachate - pH 5.0	M22- Ap0050675	X		X	
49	SX_IB_202204 25_15_57_SS _Duplicate_EU F	Apr 25, 2022	3:57PM	AUS Leachate - pH 5.0	M22- Ap0050676	X		X	
50	SX_IB_202204 25_19_53_SS _Primary_EUF	Apr 25, 2022	7:53PM	AUS Leachate - pH 5.0	M22- Ap0050677	X		X	
51	SX_IB_202204 25_23_57_SS	Apr 25, 2022	11:57PM	AUS Leachate - pH 5.0	M22- Ap0050678	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF								
52	SX_IB_20220426_03_55_SS_Primary_EUF	Apr 26, 2022	3:55AM	AUS Leachate - pH 5.0	M22-Ap0050679	X		X	
53	SX_OB_20220423_08_14_S_S_Triplicate_EUF	Apr 23, 2022	8:14AM	AUS Leachate - Reagent Water	M22-Ap0050680	X		X	
54	SX_OB_20220423_08_20_S_Primary_EUF	Apr 23, 2022	8:20AM	AUS Leachate - Reagent Water	M22-Ap0050681	X		X	
55	SX_IB_20220423_12_15_SS	Apr 23, 2022	12:15PM	AUS Leachate - Reagent	M22-Ap0050682	X		X	

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Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	23_12_15_SS_Primary_EUF			- Reagent Water	Ap0050682				
56	SX_OB_20220423_16_00_S_S_Primary_EUF	Apr 23, 2022	4:00PM	AUS Leachate - Reagent Water	M22-Ap0050683	X		X	
57	SX_OB_20220423_16_01_S_S_Duplicate_EUF	Apr 23, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ap0050684	X		X	
58	SX_OB_20220423_20_10_S_S_Primary_EUF	Apr 23, 2022	8:19PM	AUS Leachate - Reagent Water	M22-Ap0050685	X		X	

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063

Project Name: 20220426040809-Eurofin-21
Project ID: JC0927

Order No.:
Report #: 882647
Phone: 08 8338 1009
Fax:

Received: Apr 26, 2022 1:30 PM
Due: Apr 29, 2022
Priority: 3 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
59	SX_IB_20220424_00_09_SS_Primary_EUF	Apr 24, 2022	12:09AM	AUS Leachate - Reagent Water	M22-Ap0050686	X		X	
60	SX_OB_20220424_04_14_S_S_Primary_EUF	Apr 24, 2022	4:14AM	AUS Leachate - Reagent Water	M22-Ap0050687	X		X	
61	SX_OB_20220424_08_07_S_S_Triplicate_EUF	Apr 24, 2022	8:07AM	AUS Leachate - Reagent Water	M22-Ap0050688	X		X	
62	SX_IB_20220424_08_14_SS_Primary_EUF	Apr 24, 2022	8:14AM	AUS Leachate - Reagent Water	M22-Ap0050689	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
63	SX_OB_20220424_12_10_S_S_Primary_EUF	Apr 24, 2022	12:10PM	AUS Leachate - Reagent Water	M22-Ap0050690	X		X	
64	SX_IB_20220424_15_58_SS_Primary_EUF	Apr 24, 2022	3:58PM	AUS Leachate - Reagent Water	M22-Ap0050691	X		X	
65	SX_IB_20220424_15_59_SS_Duplicate_EUF	Apr 24, 2022	3:59PM	AUS Leachate - Reagent Water	M22-Ap0050692	X		X	
66	SX_IB_20220424_19_58_SS_Primary_EUF	Apr 24, 2022	7:58PM	AUS Leachate - Reagent Water	M22-Ap0050693	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
67	SX_IB_20220425_03_50_SS_Primary_EUF	Apr 25, 2022	10:30AM	AUS Leachate - Reagent Water	M22-Ap0050694	X		X	
68	SX_IB_20220425_03_59_SS_Primary_EUF	Apr 25, 2022	4:19AM	AUS Leachate - Reagent Water	M22-Ap0050695	X		X	
69	SX_OB_20220425_04_19_S_S_Triplicate_EUF	Apr 25, 2022	4:19AM	AUS Leachate - Reagent Water	M22-Ap0050696	X		X	
70	SX_IB_20220425_07_57_SS_Triplicate_EUF	Apr 25, 2022	7:57AM	AUS Leachate - Reagent Water	M22-Ap0050697	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
71	SX_IB_20220425_08_04_SS_Primary_EUF	Apr 25, 2022	8:04AM	AUS Leachate - Reagent Water	M22-Ap0050698	X		X	
72	SX_IB_20220425_11_57_SS_Primary_EUF	Apr 25, 2022	11:57AM	AUS Leachate - Reagent Water	M22-Ap0050699	X		X	
73	SX_IB_20220425_15_56_SS_Primary_EUF	Apr 25, 2022	3:56PM	AUS Leachate - Reagent Water	M22-Ap0050700	X		X	
74	SX_IB_20220425_15_57_SS_Duplicate_EUF	Apr 25, 2022	3:57PM	AUS Leachate - Reagent Water	M22-Ap0050701	X		X	
75	SX_IB_202204	Apr 25, 2022	7:53PM	AUS Leachate	M22-	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	25_19_53_SS _Primary_EUF			- Reagent Water	Ap0050702				
76	SX_IB_202204 25_23_57_SS _Primary_EUF	Apr 25, 2022	11:57PM	AUS Leachate - Reagent Water	M22- Ap0050703	X		X	
77	SX_IB_202204 26_03_55_SS _Primary_EUF	Apr 26, 2022	3:55AM	AUS Leachate - Reagent Water	M22- Ap0050704	X		X	
Test Counts						50	25	77	25

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	µg/L: micrograms per litre
ppm: parts per million	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05		0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	93		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	111		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	88		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	81		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	93		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	86		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	87		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	94		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	85		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	109		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	101		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	100			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	111			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	71			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	89			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	81			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	76			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	70			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA)								
Perfluorobutanesulfonic acid (PFBS)	%	84			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	71			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	76			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	97			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	79			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	111			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	94			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	54			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	103			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	129			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	96			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	64			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)								
				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0050658	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances								
				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0050658	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0050658	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0050658	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0050658	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0050658	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0050658	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0050658	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0050658	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0050658	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0050672	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0050672	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0050672	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0050672	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0050672	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0050672	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0050672	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0050672	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0050672	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0050672	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0050687	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0050687	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0050687	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0050687	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0050687	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0050687	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0050687	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0050687	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0050687	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0050687	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0050693	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0050693	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0050693	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0050693	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0050693	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0050693	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0050693	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0050693	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0050693	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0050693	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Michael Cassidy	Analytical Services Manager
Mary Makarios	Senior Analyst (NSW)
Richard Corner	Senior Analyst (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Agon Environmental Pty Ltd - VIC
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SA 5063



NATA Accredited
Accreditation Number 1261
Site Number 1254

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Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection, proficiency testing scheme providers and
reference materials producers reports and certificates.

Attention: **David Lawson**

Report **882647-S**
Project name **20220426040809-Eurofin-21**
Project ID **JC0927**
Received Date **Apr 26, 2022**

Client Sample ID			SX_OB_20220 423_08_14_SS _TriPLICATE_EU F	SX_OB_20220 423_08_20_SS _Primary_EUF	SX_IB_202204 23_12_15_SS _Primary_EUF	SX_OB_20220 423_16_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050628	M22- Ap0050629	M22- Ap0050630	M22- Ap0050631
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 423_08_14_SS _TriPLICATE_EU F	SX_OB_20220 423_08_20_SS _Primary_EUF	SX_IB_202204 23_12_15_SS _Primary_EUF	SX_OB_20220 423_16_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050628	M22- Ap0050629	M22- Ap0050630	M22- Ap0050631
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	86	59	59	53
Toluene-d8 (surr.)	1	%	85	63	92	51
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 423_08_14_SS _TriPLICATE_EU F	SX_OB_20220 423_08_20_SS _Primary_EUF	SX_IB_202204 23_12_15_SS _Primary_EUF	SX_OB_20220 423_16_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050628	M22- Ap0050629	M22- Ap0050630	M22- Ap0050631
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	111	115	101	74
p-Terphenyl-d14 (surr.)	1	%	107	127	134	56
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	99	110	112	70
Tetrachloro-m-xylene (surr.)	1	%	143	142	142	55

Client Sample ID			SX_OB_20220 423_08_14_SS _TriPLICATE_EU F	SX_OB_20220 423_08_20_SS _Primary_EUF	SX_IB_202204 23_12_15_SS _Primary_EUF	SX_OB_20220 423_16_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050628	M22- Ap0050629	M22- Ap0050630	M22- Ap0050631
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	99	110	112	70
Tetrachloro-m-xylene (surr.)	1	%	143	142	142	55
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	57	52	50	51
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	< 100	200	1700
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.8	8.8	10	8.1
% Moisture						
% Moisture	1	%	32	31	38	29
Heavy Metals						
Arsenic	2	mg/kg	54	23	31	57
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	150	130	130	120
Copper	5	mg/kg	79	71	70	73
Lead	5	mg/kg	6.5	< 5	5.2	5.0
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 423_08_14_SS _TriPLICATE_EU F	SX_OB_20220 423_08_20_SS _Primary_EUF	SX_IB_202204 23_12_15_SS _Primary_EUF	SX_OB_20220 423_16_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050628	M22- Ap0050629	M22- Ap0050630	M22- Ap0050631
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	200	170	170	170
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	150	140	140	120
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	85	86	84	78
13C5-PFPeA (surr.)	1	%	79	85	93	84
13C5-PFHxA (surr.)	1	%	69	69	71	75
13C4-PFHpA (surr.)	1	%	68	70	71	70
13C8-PFOA (surr.)	1	%	62	68	69	71
13C5-PFNA (surr.)	1	%	97	116	117	86
13C6-PFDA (surr.)	1	%	73	74	84	75
13C2-PFUnDA (surr.)	1	%	69	62	73	82
13C2-PFDoDA (surr.)	1	%	66	68	65	61
13C2-PFTeDA (surr.)	1	%	63	69	79	71
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	79	86	90	85
D3-N-MeFOSA (surr.)	1	%	101	89	91	84
D5-N-EtFOSA (surr.)	1	%	97	92	99	93
D7-N-MeFOSE (surr.)	1	%	75	78	74	84
D9-N-EtFOSE (surr.)	1	%	84	87	90	84
D5-N-EtFOSAA (surr.)	1	%	85	70	64	85
D3-N-MeFOSAA (surr.)	1	%	85	106	98	134

Client Sample ID			SX_OB_20220 423_08_14_SS _TriPLICATE_EU F	SX_OB_20220 423_08_20_SS _Primary_EUF	SX_IB_202204 23_12_15_SS _Primary_EUF	SX_OB_20220 423_16_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050628	M22- Ap0050629	M22- Ap0050630	M22- Ap0050631
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	68	63	66	70
18O2-PFHxS (surr.)	1	%	59	73	63	55
13C8-PFOS (surr.)	1	%	67	60	66	61
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	83	90	84	86
13C2-6:2 FTSA (surr.)	1	%	92	86	68	82
13C2-8:2 FTSA (surr.)	1	%	145	127	119	111
13C2-10:2 FTSA (surr.)	1	%	75	72	65	84
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 423_16_01_SS _Duplicate_EU F	SX_OB_20220 423_20_10_SS _Primary_EUF	SX_IB_202204 24_00_09_SS _Primary_EUF	SX_OB_20220 424_04_14_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050632	M22- Ap0050635	M22- Ap0050636	M22- Ap0050637
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			SX_OB_20220 423_16_01_SS Duplicate_EU F	SX_OB_20220 423_20_10_SS Primary_EUF	SX_IB_202204 24_00_09_SS Primary_EUF	SX_OB_20220 424_04_14_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050632	M22- Ap0050635	M22- Ap0050636	M22- Ap0050637
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 423_16_01_SS Duplicate_EU F	SX_OB_20220 423_20_10_SS Primary_EUF	SX_IB_202204 24_00_09_SS Primary_EUF	SX_OB_20220 424_04_14_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050632	M22- Ap0050635	M22- Ap0050636	M22- Ap0050637
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	65	79	74	79
Toluene-d8 (surr.)	1	%	59	75	73	84
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	125	64	97
p-Terphenyl-d14 (surr.)	1	%	117	142	142	146

Client Sample ID			SX_OB_20220 423_16_01_SS Duplicate_EU F	SX_OB_20220 423_20_10_SS Primary_EUF	SX_IB_202204 24_00_09_SS Primary_EUF	SX_OB_20220 424_04_14_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050632	M22- Ap0050635	M22- Ap0050636	M22- Ap0050637
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	92	113	103	82
Tetrachloro-m-xylene (surr.)	1	%	127	135	123	121
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	92	113	103	82
Tetrachloro-m-xylene (surr.)	1	%	127	135	123	121
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			SX_OB_20220 423_16_01_SS Duplicate_EU F	SX_OB_20220 423_20_10_SS Primary_EUF	SX_IB_202204 24_00_09_SS Primary_EUF	SX_OB_20220 424_04_14_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050632	M22- Ap0050635	M22- Ap0050636	M22- Ap0050637
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	42	51	30	42
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.9	8.2	8.4	7.7
% Moisture						
% Moisture	1	%	31	31	31	32
Heavy Metals						
Arsenic	2	mg/kg	62	39	32	57
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	150	170	140	180
Copper	5	mg/kg	59	68	68	76
Lead	5	mg/kg	5.1	< 5	5.0	6.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	170	200	170	200
Selenium	2	mg/kg	< 2	< 2	2.1	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	120	130	140	150
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	85	85	85	83
13C5-PFPeA (surr.)	1	%	78	87	89	83
13C5-PFHxA (surr.)	1	%	68	69	68	67

Client Sample ID			SX_OB_20220 423_16_01_SS Duplicate_EU F	SX_OB_20220 423_20_10_SS Primary_EUF	SX_IB_202204 24_00_09_SS Primary_EUF	SX_OB_20220 424_04_14_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050632	M22- Ap0050635	M22- Ap0050636	M22- Ap0050637
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	64	72	70	71
13C8-PFOA (surr.)	1	%	70	66	67	62
13C5-PFNA (surr.)	1	%	102	100	128	102
13C6-PFDA (surr.)	1	%	63	83	68	66
13C2-PFUnDA (surr.)	1	%	72	69	56	73
13C2-PFDoDA (surr.)	1	%	65	57	69	67
13C2-PFTeDA (surr.)	1	%	81	66	62	65
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	78	81	82	82
D3-N-MeFOSA (surr.)	1	%	93	80	98	85
D5-N-EtFOSA (surr.)	1	%	92	102	92	87
D7-N-MeFOSE (surr.)	1	%	77	84	73	89
D9-N-EtFOSE (surr.)	1	%	89	85	94	83
D5-N-EtFOSAA (surr.)	1	%	93	94	74	92
D3-N-MeFOSAA (surr.)	1	%	132	96	103	89
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	66	66	58	59
18O2-PFHxS (surr.)	1	%	61	69	76	73
13C8-PFOS (surr.)	1	%	62	79	75	66
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	91	84	84	85
13C2-6:2 FTSA (surr.)	1	%	73	72	78	77

Client Sample ID			SX_OB_20220 423_16_01_SS Duplicate_EU F	SX_OB_20220 423_20_10_SS Primary_EUF	SX_IB_202204 24_00_09_SS Primary_EUF	SX_OB_20220 424_04_14_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050632	M22- Ap0050635	M22- Ap0050636	M22- Ap0050637
Date Sampled			Apr 23, 2022	Apr 23, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-8:2 FTSA (surr.)	1	%	119	140	134	138
13C2-10:2 FTSA (surr.)	1	%	93	99	144	76
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 424_08_07_SS TriPLICATE_EU F	SX_IB_202204 24_08_14_SS Primary_EUF	SX_OB_20220 424_12_10_SS Primary_EUF	SX_IB_202204 24_15_58_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050638	M22- Ap0050639	M22- Ap0050640	M22- Ap0050641
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 424_08_07_SS TriPLICATE_EU F	SX_IB_202204 24_08_14_SS Primary_EUF	SX_OB_20220 424_12_10_SS Primary_EUF	SX_IB_202204 24_15_58_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050638	M22- Ap0050639	M22- Ap0050640	M22- Ap0050641
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	74	75	61	65
Toluene-d8 (surr.)	1	%	82	73	64	70

Client Sample ID			SX_OB_20220 424_08_07_SS _TriPLICATE_EU F	SX_IB_202204 24_08_14_SS _Primary_EUF	SX_OB_20220 424_12_10_SS _Primary_EUF	SX_IB_202204 24_15_58_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050638	M22- Ap0050639	M22- Ap0050640	M22- Ap0050641
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	96	95	93	68
p-Terphenyl-d14 (surr.)	1	%	144	101	127	68
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 424_08_07_SS _TriPLICATE_EU F	SX_IB_202204 24_08_14_SS _Primary_EUF	SX_OB_20220 424_12_10_SS _Primary_EUF	SX_IB_202204 24_15_58_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050638	M22- Ap0050639	M22- Ap0050640	M22- Ap0050641
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	92	121	91	55
Tetrachloro-m-xylene (surr.)	1	%	128	127	106	55
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	92	121	91	55
Tetrachloro-m-xylene (surr.)	1	%	128	127	106	55
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	44	34	37	53
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	130	< 100	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.3	8.5	8.0	8.5
% Moisture						
% Moisture	1	%	31	31	32	33

Client Sample ID			SX_OB_20220 424_08_07_SS _Triuplicate_EU F	SX_IB_202204 24_08_14_SS _Primary_EUF	SX_OB_20220 424_12_10_SS _Primary_EUF	SX_IB_202204 24_15_58_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050638	M22- Ap0050639	M22- Ap0050640	M22- Ap0050641
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	53	41	58	41
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	160	180	140	130
Copper	5	mg/kg	130	86	80	77
Lead	5	mg/kg	5.7	5.8	5.2	5.4
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	210	220	210	180
Selenium	2	mg/kg	< 2	2.4	< 2	2.0
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	170	170	160	150
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	84	85	86	81
13C5-PFPeA (surr.)	1	%	78	89	83	91
13C5-PFHxA (surr.)	1	%	70	69	72	72
13C4-PFHpA (surr.)	1	%	65	66	71	75
13C8-PFOA (surr.)	1	%	69	66	69	81
13C5-PFNA (surr.)	1	%	98	94	100	122
13C6-PFDA (surr.)	1	%	69	68	69	69
13C2-PFUnDA (surr.)	1	%	80	73	70	77
13C2-PFDoDA (surr.)	1	%	57	65	69	63
13C2-PFTeDA (surr.)	1	%	67	72	71	69
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	87	86	86	91

Client Sample ID			SX_OB_20220 424_08_07_SS _TriPLICATE_EU F	SX_IB_202204 24_08_14_SS _Primary_EUF	SX_OB_20220 424_12_10_SS _Primary_EUF	SX_IB_202204 24_15_58_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050638	M22- Ap0050639	M22- Ap0050640	M22- Ap0050641
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 24, 2022	Apr 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D3-N-MeFOSA (surr.)	1	%	105	97	87	89
D5-N-EtFOSA (surr.)	1	%	99	95	95	94
D7-N-MeFOSE (surr.)	1	%	74	68	76	78
D9-N-EtFOSE (surr.)	1	%	88	92	84	80
D5-N-EtFOSAA (surr.)	1	%	109	83	97	61
D3-N-MeFOSAA (surr.)	1	%	120	101	97	120
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	67	59	67	63
18O2-PFHxS (surr.)	1	%	74	62	70	80
13C8-PFOS (surr.)	1	%	66	58	61	78
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	83	86	81	87
13C2-6:2 FTSA (surr.)	1	%	74	78	87	85
13C2-8:2 FTSA (surr.)	1	%	119	127	126	94
13C2-10:2 FTSA (surr.)	1	%	63	98	102	84
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_IB_202204_24_15_59_SS_Duplicate_EUF	SX_IB_202204_24_19_58_SS_Primary_EUF	SX_IB_202204_25_03_50_SS_Primary_EUF	SX_IB_202204_25_03_59_SS_Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ap0050642	M22-Ap0050643	M22-Ap0050644	M22-Ap0050645
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_IB_202204 24_15_59_SS Duplicate_EUF	SX_IB_202204 24_19_58_SS Primary_EUF	SX_IB_202204 25_03_50_SS Primary_EUF	SX_IB_202204 25_03_59_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050642	M22- Ap0050643	M22- Ap0050644	M22- Ap0050645
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	66	68	82	55
Toluene-d8 (surr.)	1	%	67	67	86	64
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_IB_202204 24_15_59_SS Duplicate_EUF	SX_IB_202204 24_19_58_SS Primary_EUF	SX_IB_202204 25_03_50_SS Primary_EUF	SX_IB_202204 25_03_59_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050642	M22- Ap0050643	M22- Ap0050644	M22- Ap0050645
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	50	88	86	93
p-Terphenyl-d14 (surr.)	1	%	52	127	138	120
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	54	116	119	118
Tetrachloro-m-xylene (surr.)	1	%	71	109	128	103
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	54	116	119	118
Tetrachloro-m-xylene (surr.)	1	%	71	109	128	103
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			SX_IB_202204 24_15_59_SS Duplicate_EUF	SX_IB_202204 24_19_58_SS Primary_EUF	SX_IB_202204 25_03_50_SS Primary_EUF	SX_IB_202204 25_03_59_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050642	M22- Ap0050643	M22- Ap0050644	M22- Ap0050645
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	56	38	41	42
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	< 100	1500	160
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.2	8.5	8.2	8.4
% Moisture						
% Moisture	1	%	32	32	31	30
Heavy Metals						
Arsenic	2	mg/kg	44	29	60	32
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	110	140	170	130
Copper	5	mg/kg	68	71	76	58
Lead	5	mg/kg	< 5	< 5	5.9	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	170	170	180	150
Selenium	2	mg/kg	< 2	2.3	2.0	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	140	140	150	110
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			SX_IB_202204_24_15_59_SS_Duplicate_EUF	SX_IB_202204_24_19_58_SS_Primary_EUF	SX_IB_202204_25_03_50_SS_Primary_EUF	SX_IB_202204_25_03_59_SS_Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ap0050642	M22-Ap0050643	M22-Ap0050644	M22-Ap0050645
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	81	87	86	87
13C5-PFPeA (surr.)	1	%	81	82	87	92
13C5-PFHxA (surr.)	1	%	73	68	68	69
13C4-PFHpA (surr.)	1	%	76	71	71	70
13C8-PFOA (surr.)	1	%	69	59	68	71
13C5-PFNA (surr.)	1	%	107	122	115	97
13C6-PFDA (surr.)	1	%	78	88	79	83
13C2-PFUnDA (surr.)	1	%	75	72	75	73
13C2-PFDoDA (surr.)	1	%	63	62	64	63
13C2-PFTeDA (surr.)	1	%	75	69	64	72
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	89	83	85	75
D3-N-MeFOSA (surr.)	1	%	89	93	103	102
D5-N-EtFOSA (surr.)	1	%	95	104	100	95
D7-N-MeFOSE (surr.)	1	%	74	98	69	69
D9-N-EtFOSE (surr.)	1	%	84	87	87	88
D5-N-EtFOSAA (surr.)	1	%	100	97	124	124
D3-N-MeFOSAA (surr.)	1	%	84	126	112	123
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	60	59	59	58
18O2-PFHxS (surr.)	1	%	65	76	79	69
13C8-PFOS (surr.)	1	%	64	63	71	65

Client Sample ID			SX_IB_202204_24_15_59_SS_Duplicate_EUF	SX_IB_202204_24_19_58_SS_Primary_EUF	SX_IB_202204_25_03_50_SS_Primary_EUF	SX_IB_202204_25_03_59_SS_Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ap0050642	M22-Ap0050643	M22-Ap0050644	M22-Ap0050645
Date Sampled			Apr 24, 2022	Apr 24, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	90	87	81	91
13C2-6:2 FTSA (surr.)	1	%	83	75	90	110
13C2-8:2 FTSA (surr.)	1	%	103	147	148	122
13C2-10:2 FTSA (surr.)	1	%	88	92	90	92
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220425_04_19_SS_Triplicate_EUF	SX_IB_202204_25_07_57_SS_Triplicate_EUF	SX_IB_202204_25_08_04_SS_Primary_EUF	SX_IB_202204_25_11_57_SS_Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ap0050646	M22-Ap0050647	M22-Ap0050648	M22-Ap0050649
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 425_04_19_SS TriPLICATE_EU F	SX_IB_202204 25_07_57_SS TriPLICATE_EUF	SX_IB_202204 25_08_04_SS Primary_EUF	SX_IB_202204 25_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050646	M22- Ap0050647	M22- Ap0050648	M22- Ap0050649
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 425_04_19_SS TriPLICATE_EU F	SX_IB_202204 25_07_57_SS TriPLICATE_EUF	SX_IB_202204 25_08_04_SS Primary_EUF	SX_IB_202204 25_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050646	M22- Ap0050647	M22- Ap0050648	M22- Ap0050649
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	72	66	71	72
Toluene-d8 (surr.)	1	%	54	64	71	72
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	91	103	88	86
p-Terphenyl-d14 (surr.)	1	%	113	131	102	119
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			SX_OB_20220 425_04_19_SS TriPLICATE_EU F	SX_IB_202204 25_07_57_SS TriPLICATE_EUF	SX_IB_202204 25_08_04_SS Primary_EUF	SX_IB_202204 25_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050646	M22- Ap0050647	M22- Ap0050648	M22- Ap0050649
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	82	133	106	107
Tetrachloro-m-xylene (surr.)	1	%	128	130	114	118
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	82	133	106	107
Tetrachloro-m-xylene (surr.)	1	%	128	130	114	118
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	55	45	31	34
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			SX_OB_20220 425_04_19_SS TriPLICATE_EU F	SX_IB_202204 25_07_57_SS TriPLICATE_EUF	SX_IB_202204 25_08_04_SS Primary_EUF	SX_IB_202204 25_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050646	M22- Ap0050647	M22- Ap0050648	M22- Ap0050649
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	190
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.4	8.4	8.2	8.7
% Moisture	1	%	29	31	31	27
Heavy Metals						
Arsenic	2	mg/kg	45	32	30	26
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	140	130	130	120
Copper	5	mg/kg	67	64	78	62
Lead	5	mg/kg	5.2	< 5	< 5	5.3
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	170	160	180	140
Selenium	2	mg/kg	< 2	< 2	< 2	2.1
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	140	130	150	100
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTriDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	87	88	84	86
13C5-PFPeA (surr.)	1	%	92	83	82	86
13C5-PFHxA (surr.)	1	%	69	71	66	69
13C4-PFHpA (surr.)	1	%	69	67	65	72
13C8-PFOA (surr.)	1	%	69	69	72	71
13C5-PFNA (surr.)	1	%	108	107	93	113
13C6-PFDA (surr.)	1	%	68	52	62	64
13C2-PFUnDA (surr.)	1	%	61	72	61	68
13C2-PFDoDA (surr.)	1	%	74	63	56	66
13C2-PFTeDA (surr.)	1	%	73	81	66	68
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			SX_OB_20220 425_04_19_SS TriPLICATE_EU F	SX_IB_202204 25_07_57_SS TriPLICATE_EUF	SX_IB_202204 25_08_04_SS Primary_EUF	SX_IB_202204 25_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050646	M22- Ap0050647	M22- Ap0050648	M22- Ap0050649
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	82	80	71	79
D3-N-MeFOSA (surr.)	1	%	98	90	91	92
D5-N-EtFOSA (surr.)	1	%	95	109	89	94
D7-N-MeFOSE (surr.)	1	%	66	78	66	83
D9-N-EtFOSE (surr.)	1	%	84	87	81	79
D5-N-EtFOSAA (surr.)	1	%	75	114	63	84
D3-N-MeFOSAA (surr.)	1	%	101	105	121	137
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	66	61	56	59
18O2-PFHxS (surr.)	1	%	75	75	86	68
13C8-PFOS (surr.)	1	%	59	78	71	52
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	87	89	93	90
13C2-6:2 FTSA (surr.)	1	%	86	84	76	81
13C2-8:2 FTSA (surr.)	1	%	123	133	123	134
13C2-10:2 FTSA (surr.)	1	%	73	64	95	105
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_IB_202204 25_15_56_SS Primary_EUF	SX_IB_202204 25_15_57_SS Duplicate_EUF	SX_IB_202204 25_19_53_SS Primary_EUF	SX_IB_202204 25_23_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050650	M22- Ap0050651	M22- Ap0050652	M22- Ap0050653
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_IB_202204 25_15_56_SS Primary_EUF	SX_IB_202204 25_15_57_SS Duplicate_EUF	SX_IB_202204 25_19_53_SS Primary_EUF	SX_IB_202204 25_23_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050650	M22- Ap0050651	M22- Ap0050652	M22- Ap0050653
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	92	54	62	58
Toluene-d8 (surr.)	1	%	84	56	63	58
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_IB_202204_25_15_56_SS_Primary_EUF	SX_IB_202204_25_15_57_SS_Duplicate_EUF	SX_IB_202204_25_19_53_SS_Primary_EUF	SX_IB_202204_25_23_57_SS_Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ap0050650	M22-Ap0050651	M22-Ap0050652	M22-Ap0050653
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	86	100	88	96
p-Terphenyl-d14 (surr.)	1	%	121	138	132	117
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	108	120	124	109
Tetrachloro-m-xylene (surr.)	1	%	130	134	120	115
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	108	120	124	109
Tetrachloro-m-xylene (surr.)	1	%	130	134	120	115
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			SX_IB_202204 25_15_56_SS Primary_EUF	SX_IB_202204 25_15_57_SS Duplicate_EUF	SX_IB_202204 25_19_53_SS Primary_EUF	SX_IB_202204 25_23_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050650	M22- Ap0050651	M22- Ap0050652	M22- Ap0050653
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	36	57	48	39
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.3	8.6	8.6	8.4
% Moisture						
% Moisture	1	%	31	26	32	30
Heavy Metals						
Arsenic	2	mg/kg	36	34	24	29
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	140	110	130	140
Copper	5	mg/kg	78	75	65	70
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	160	150	140	170
Selenium	2	mg/kg	2.1	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	140	110	97	130
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			SX_IB_202204_25_15_56_SS_Primary_EUF	SX_IB_202204_25_15_57_SS_Duplicate_EUF	SX_IB_202204_25_19_53_SS_Primary_EUF	SX_IB_202204_25_23_57_SS_Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ap0050650	M22-Ap0050651	M22-Ap0050652	M22-Ap0050653
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	86	86	87	86
13C5-PFPeA (surr.)	1	%	81	91	80	86
13C5-PFHxA (surr.)	1	%	70	68	70	68
13C4-PFHpA (surr.)	1	%	67	67	70	67
13C8-PFOA (surr.)	1	%	68	66	67	65
13C5-PFNA (surr.)	1	%	107	99	110	95
13C6-PFDA (surr.)	1	%	66	72	75	58
13C2-PFUnDA (surr.)	1	%	81	69	69	71
13C2-PFDoDA (surr.)	1	%	59	71	71	64
13C2-PFTeDA (surr.)	1	%	69	80	67	73
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	77	81	81	87
D3-N-MeFOSA (surr.)	1	%	104	108	95	110
D5-N-EtFOSA (surr.)	1	%	97	99	93	99
D7-N-MeFOSE (surr.)	1	%	102	84	75	79
D9-N-EtFOSE (surr.)	1	%	97	90	90	87
D5-N-EtFOSAA (surr.)	1	%	97	102	91	106
D3-N-MeFOSAA (surr.)	1	%	116	130	138	121
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	57	58	57	60
18O2-PFHxS (surr.)	1	%	76	82	55	68
13C8-PFOS (surr.)	1	%	66	48	71	67

Client Sample ID			SX_IB_202204 25_15_56_SS Primary_EUF	SX_IB_202204 25_15_57_SS Duplicate_EUF	SX_IB_202204 25_19_53_SS Primary_EUF	SX_IB_202204 25_23_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0050650	M22- Ap0050651	M22- Ap0050652	M22- Ap0050653
Date Sampled			Apr 25, 2022	Apr 25, 2022	Apr 25, 2022	Apr 25, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	89	88	90	85
13C2-6:2 FTSA (surr.)	1	%	80	74	83	80
13C2-8:2 FTSA (surr.)	1	%	137	140	116	122
13C2-10:2 FTSA (surr.)	1	%	99	106	61	104
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_IB_202204 26_03_55_SS Primary_EUF
Sample Matrix			Soil
Eurofins Sample No.			M22- Ap0050654
Date Sampled			Apr 26, 2022
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
Volatile Organics			
Hexachlorobutadiene	0.5	mg/kg	< 0.5
Volatile Organics			
1.1-Dichloroethane	0.5	mg/kg	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5

Client Sample ID			SX_IB_202204
Sample Matrix			26_03_55_SS
Eurofins Sample No.			Primary_EUF
Date Sampled			Soil
Test/Reference	LOR	Unit	M22- Ap0050654
			Apr 26, 2022
Volatile Organics			
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5
Benzene	0.1	mg/kg	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5
Bromoform	0.5	mg/kg	< 0.5
Bromomethane	0.5	mg/kg	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5
Chloroethane	0.5	mg/kg	< 0.5
Chloroform	0.5	mg/kg	< 0.5
Chloromethane	0.5	mg/kg	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1
Iodomethane	0.5	mg/kg	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5
o-Xylene	0.1	mg/kg	< 0.1
Styrene	0.5	mg/kg	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5
Toluene	0.1	mg/kg	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5

Client Sample ID			SX_IB_202204
Sample Matrix			26_03_55_SS
Eurofins Sample No.			Primary_EUF
Date Sampled			Soil
Test/Reference	LOR	Unit	M22- Ap0050654
			Apr 26, 2022
Volatile Organics			
Xylenes - Total*	0.3	mg/kg	< 0.3
Total MAH*	0.5	mg/kg	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5
4-Bromofluorobenzene (surr.)	1	%	53
Toluene-d8 (surr.)	1	%	53
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	89
p-Terphenyl-d14 (surr.)	1	%	116
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05
a-HCH	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-HCH	0.05	mg/kg	< 0.05
d-HCH	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05

Client Sample ID			SX_IB_202204
Sample Matrix			26_03_55_SS
Eurofins Sample No.			Primary_EUF
Date Sampled			Soil
Test/Reference	LOR	Unit	M22- Ap0050654
			Apr 26, 2022
Organochlorine Pesticides			
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05
Toxaphene	0.5	mg/kg	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1
Dibutylchlorendate (surr.)	1	%	109
Tetrachloro-m-xylene (surr.)	1	%	124
Polychlorinated Biphenyls			
Aroclor-1016	0.1	mg/kg	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1
Total PCB*	0.1	mg/kg	< 0.1
Dibutylchlorendate (surr.)	1	%	109
Tetrachloro-m-xylene (surr.)	1	%	124
Phenols (Halogenated)			
2-Chlorophenol	0.5	mg/kg	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1
Pentachlorophenol	1	mg/kg	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10
Total Halogenated Phenol*	1	mg/kg	< 1
Phenols (non-Halogenated)			
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5
2-Nitrophenol	1.0	mg/kg	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4
Total cresols*	0.5	mg/kg	< 0.5
4-Nitrophenol	5	mg/kg	< 5
Dinoseb	20	mg/kg	< 20
Phenol	0.5	mg/kg	< 0.5
Phenol-d6 (surr.)	1	%	48
Total Non-Halogenated Phenol*	20	mg/kg	< 20

Client Sample ID			SX_IB_202204
Sample Matrix			26_03_55_SS
Eurofins Sample No.			Primary_EUF
Date Sampled			Soil
Test/Reference	LOR	Unit	M22- Ap0050654
			Apr 26, 2022
Chromium (hexavalent)	1	mg/kg	< 1
Cyanide (total)	5	mg/kg	< 5
Fluoride (Total)	100	mg/kg	130
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.3
% Moisture	1	%	30
Heavy Metals			
Arsenic	2	mg/kg	41
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	120
Copper	5	mg/kg	75
Lead	5	mg/kg	< 5
Mercury	0.1	mg/kg	< 0.1
Molybdenum	5	mg/kg	< 5
Nickel	5	mg/kg	170
Selenium	2	mg/kg	< 2
Silver	2	mg/kg	< 2
Tin	10	mg/kg	< 10
Zinc	5	mg/kg	170
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5
13C4-PFBA (surr.)	1	%	85
13C5-PFPeA (surr.)	1	%	87
13C5-PFHxA (surr.)	1	%	66
13C4-PFHpA (surr.)	1	%	67
13C8-PFOA (surr.)	1	%	60
13C5-PFNA (surr.)	1	%	108
13C6-PFDA (surr.)	1	%	60
13C2-PFUnDA (surr.)	1	%	67
13C2-PFDoDA (surr.)	1	%	66
13C2-PFTeDA (surr.)	1	%	67
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5

Client Sample ID			SX_IB_202204
Sample Matrix			26_03_55_SS
Eurofins Sample No.			Primary_EUF
Date Sampled			Soil
Test/Reference	LOR	Unit	M22- Ap0050654
			Apr 26, 2022
Perfluoroalkyl sulfonamido substances			
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10
13C8-FOSA (surr.)	1	%	84
D3-N-MeFOSA (surr.)	1	%	103
D5-N-EtFOSA (surr.)	1	%	92
D7-N-MeFOSE (surr.)	1	%	76
D9-N-EtFOSE (surr.)	1	%	88
D5-N-EtFOSAA (surr.)	1	%	75
D3-N-MeFOSAA (surr.)	1	%	105
Perfluoroalkyl sulfonic acids (PFASs)			
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5
13C3-PFBS (surr.)	1	%	58
18O2-PFHxS (surr.)	1	%	69
13C8-PFOS (surr.)	1	%	61
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5
13C2-4:2 FTSA (surr.)	1	%	88
13C2-6:2 FTSA (surr.)	1	%	74
13C2-8:2 FTSA (surr.)	1	%	131
13C2-10:2 FTSA (surr.)	1	%	75
PFASs Summations			
Sum (PFHxS + PFOS)*	5	ug/kg	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
IWRG 621 WGTP Suite			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Apr 27, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Apr 27, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Apr 27, 2022	14 Days
Volatile Organics - Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS	Melbourne	Apr 27, 2022	7 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Apr 27, 2022	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Apr 27, 2022	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Apr 27, 2022	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	Apr 27, 2022	28 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Apr 27, 2022	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Apr 27, 2022	14 Days
Chromium (hexavalent) - Method: LTM-INO-4230 Hexavalent Chromium by UV-Vis - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection	Melbourne	Apr 27, 2022	28 Days
Cyanide (total) - Method: LTM-INO-4020 Total Free WAD Cyanide by CFA	Melbourne	Apr 28, 2022	14 Days
Fluoride (Total) - Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC	Melbourne	Apr 28, 2022	28 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	Apr 27, 2022	7 Days
Metals IWRG 621 : Metals M12 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Apr 27, 2022	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Apr 26, 2022	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 27, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 27, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 27, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 27, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 26, 2022	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_OB_20220423_08_14_S_S_Triplicate_EUF	Apr 23, 2022	8:14AM	Soil	M22-Ap0050628		X	X	X
2	SX_OB_20220423_08_20_S_S_Primary_EUF	Apr 23, 2022	8:20AM	Soil	M22-Ap0050629		X	X	X
3	SX_IB_20220423_12_15_SS_Primary_EUF	Apr 23, 2022	12:15PM	Soil	M22-Ap0050630		X	X	X
4	SX_OB_20220423_04_00_S_S_Primary_EUF	Apr 23, 2022	4:00PM	Soil	M22-		X	X	X

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Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	423_16_00_S S_Primary_EU F				Ap0050631				
5	SX_OB_20220 423_16_01_S S_Duplicate_E UF	Apr 23, 2022	4:01PM	Soil	M22- Ap0050632		X	X	X
6	SX_OB_20220 423_16_21_S R_Rinsate_EU F	Apr 23, 2022	4:21PM	Water	M22- Ap0050633			X	
7	SX_OB_20220 423_16_24_S B_Blank_EUF	Apr 23, 2022	4:24PM	Water	M22- Ap0050634			X	

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063
Project Name: 20220426040809-Eurofin-21
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Phone: 08 8338 1009
Fax:

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Priority: 3 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
8	SX_OB_20220423_20_10_S_S_Primary_EUF	Apr 23, 2022	8:19PM	Soil	M22-Ap0050635		X	X	X
9	SX_IB_20220424_00_09_SS_Primary_EUF	Apr 24, 2022	12:09AM	Soil	M22-Ap0050636		X	X	X
10	SX_OB_20220424_04_14_S_S_Primary_EUF	Apr 24, 2022	4:14AM	Soil	M22-Ap0050637		X	X	X
11	SX_OB_20220424_08_07_S_S_Triplicate_E	Apr 24, 2022	8:07AM	Soil	M22-Ap0050638		X	X	X

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Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	UF								
12	SX_IB_20220424_08_14_SS_Primary_EUF	Apr 24, 2022	8:14AM	Soil	M22-Ap0050639		X	X	X
13	SX_OB_20220424_12_10_SS_Primary_EUF	Apr 24, 2022	12:10PM	Soil	M22-Ap0050640		X	X	X
14	SX_IB_20220424_15_58_SS_Primary_EUF	Apr 24, 2022	3:58PM	Soil	M22-Ap0050641		X	X	X
15	SX_IB_20220424_15_59_SS_Duplicate_EU	Apr 24, 2022	3:59PM	Soil	M22-Ap0050642		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
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Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Duplicate_EU F								
16	SX_IB_202204 24_19_58_SS _Primary_EUF	Apr 24, 2022	7:58PM	Soil	M22- Ap0050643		X	X	X
17	SX_IB_202204 25_03_50_SS _Primary_EUF	Apr 25, 2022	10:30AM	Soil	M22- Ap0050644		X	X	X
18	SX_IB_202204 25_03_59_SS _Primary_EUF	Apr 25, 2022	4:19AM	Soil	M22- Ap0050645		X	X	X
19	SX_OB_20220 425_04_19_S S_Triplicate_E	Apr 25, 2022	4:19AM	Soil	M22- Ap0050646		X	X	X

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Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	UF								
20	SX_IB_20220425_07_57_SS_Triplicate_EU_F	Apr 25, 2022	7:57AM	Soil	M22-Ap0050647		X	X	X
21	SX_IB_20220425_08_04_SS_Primary_EUF	Apr 25, 2022	8:04AM	Soil	M22-Ap0050648		X	X	X
22	SX_IB_20220425_11_57_SS_Primary_EUF	Apr 25, 2022	11:57AM	Soil	M22-Ap0050649		X	X	X
23	SX_IB_20220425_15_56_SS_Primary_EUF	Apr 25, 2022	3:56PM	Soil	M22-Ap0050650		X	X	X

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Project Name: 20220426040809-Eurofin-21
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Received: Apr 26, 2022 1:30 PM
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Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
24	SX_IB_20220425_15_57_SS_Duplicate_EUF	Apr 25, 2022	3:57PM	Soil	M22-Ap0050651		X	X	X
25	SX_IB_20220425_19_53_SS_Primary_EUF	Apr 25, 2022	7:53PM	Soil	M22-Ap0050652		X	X	X
26	SX_IB_20220425_23_57_SS_Primary_EUF	Apr 25, 2022	11:57PM	Soil	M22-Ap0050653		X	X	X
27	SX_IB_20220426_03_55_SS_Primary_EUF	Apr 26, 2022	3:55AM	Soil	M22-Ap0050654		X	X	X
28	SX_OB_20220	Apr 23, 2022	8:14AM	AUS Leachate	M22-	X		X	

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Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	423_08_14_S S_Triplicate_E UF			- pH 5.0	Ap0050655				
29	SX_OB_20220 423_08_20_S S_Primary_EU F	Apr 23, 2022	8:20AM	AUS Leachate - pH 5.0	M22- Ap0050656	X		X	
30	SX_IB_202204 23_12_15_SS _Primary_EUF	Apr 23, 2022	12:15PM	AUS Leachate - pH 5.0	M22- Ap0050657	X		X	
31	SX_OB_20220 423_16_00_S S_Primary_EU F	Apr 23, 2022	4:00PM	AUS Leachate - pH 5.0	M22- Ap0050658	X		X	

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Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
32	SX_OB_20220423_16_01_S_S_Duplicate_EUF	Apr 23, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ap0050659	X		X	
33	SX_OB_20220423_20_10_S_S_Primary_EUF	Apr 23, 2022	8:19PM	AUS Leachate - pH 5.0	M22-Ap0050660	X		X	
34	SX_IB_20220424_00_09_SS_Primary_EUF	Apr 24, 2022	12:09AM	AUS Leachate - pH 5.0	M22-Ap0050661	X		X	
35	SX_OB_20220424_04_14_S_S_Primary_EUF	Apr 24, 2022	4:14AM	AUS Leachate - pH 5.0	M22-Ap0050662	X		X	

Company Name: Agon Environmental Pty Ltd - VIC
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Project Name: 20220426040809-Eurofin-21
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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	F								
36	SX_OB_20220424_08_07_S_S_Triplicate_EUF	Apr 24, 2022	8:07AM	AUS Leachate - pH 5.0	M22-Ap0050663	X		X	
37	SX_IB_20220424_08_14_SS_Primary_EUF	Apr 24, 2022	8:14AM	AUS Leachate - pH 5.0	M22-Ap0050664	X		X	
38	SX_OB_20220424_12_10_S_S_Primary_EUF	Apr 24, 2022	12:10PM	AUS Leachate - pH 5.0	M22-Ap0050665	X		X	
39	SX_IB_20220424_15_58_SS	Apr 24, 2022	3:58PM	AUS Leachate - pH 5.0	M22-Ap0050666	X		X	

Company Name: Agon Environmental Pty Ltd - VIC
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Received: Apr 26, 2022 1:30 PM
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Priority: 3 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	24_15_58_SS _Primary_EUF			- pH 5.0	Ap0050666				
40	SX_IB_202204 24_15_59_SS _Duplicate_EU F	Apr 24, 2022	3:59PM	AUS Leachate - pH 5.0	M22- Ap0050667	X		X	
41	SX_IB_202204 24_19_58_SS _Primary_EUF	Apr 24, 2022	7:58PM	AUS Leachate - pH 5.0	M22- Ap0050668	X		X	
42	SX_IB_202204 25_03_50_SS _Primary_EUF	Apr 25, 2022	10:30AM	AUS Leachate - pH 5.0	M22- Ap0050669	X		X	
43	SX_IB_202204 25_03_59_SS	Apr 25, 2022	4:19AM	AUS Leachate - pH 5.0	M22- Ap0050670	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF								
44	SX_OB_20220425_04_19_SS_Triplicate_EUF	Apr 25, 2022	4:19AM	AUS Leachate - pH 5.0	M22-Ap0050671	X		X	
45	SX_IB_20220425_07_57_SS_Triplicate_EUF	Apr 25, 2022	7:57AM	AUS Leachate - pH 5.0	M22-Ap0050672	X		X	
46	SX_IB_20220425_08_04_SS_Primary_EUF	Apr 25, 2022	8:04AM	AUS Leachate - pH 5.0	M22-Ap0050673	X		X	
47	SX_IB_20220425_11_57_SS	Apr 25, 2022	11:57AM	AUS Leachate - pH 5.0	M22-Ap0050674	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	25_11_57_SS _Primary_EUF			- pH 5.0	Ap0050674				
48	SX_IB_202204 25_15_56_SS _Primary_EUF	Apr 25, 2022	3:56PM	AUS Leachate - pH 5.0	M22- Ap0050675	X		X	
49	SX_IB_202204 25_15_57_SS _Duplicate_EU F	Apr 25, 2022	3:57PM	AUS Leachate - pH 5.0	M22- Ap0050676	X		X	
50	SX_IB_202204 25_19_53_SS _Primary_EUF	Apr 25, 2022	7:53PM	AUS Leachate - pH 5.0	M22- Ap0050677	X		X	
51	SX_IB_202204 25_23_57_SS	Apr 25, 2022	11:57PM	AUS Leachate - pH 5.0	M22- Ap0050678	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF								
52	SX_IB_20220426_03_55_SS_Primary_EUF	Apr 26, 2022	3:55AM	AUS Leachate - pH 5.0	M22-Ap0050679	X		X	
53	SX_OB_20220423_08_14_S_S_Triplicate_EUF	Apr 23, 2022	8:14AM	AUS Leachate - Reagent Water	M22-Ap0050680	X		X	
54	SX_OB_20220423_08_20_S_Primary_EUF	Apr 23, 2022	8:20AM	AUS Leachate - Reagent Water	M22-Ap0050681	X		X	
55	SX_IB_20220423_12_15_SS	Apr 23, 2022	12:15PM	AUS Leachate - Reagent	M22-Ap0050682	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	23_12_15_SS _Primary_EUF			- Reagent Water	Ap0050682				
56	SX_OB_20220 423_16_00_S S_Primary_EU F	Apr 23, 2022	4:00PM	AUS Leachate - Reagent Water	M22- Ap0050683	X		X	
57	SX_OB_20220 423_16_01_S S_Duplicate_E UF	Apr 23, 2022	4:01PM	AUS Leachate - Reagent Water	M22- Ap0050684	X		X	
58	SX_OB_20220 423_20_10_S S_Primary_EU F	Apr 23, 2022	8:19PM	AUS Leachate - Reagent Water	M22- Ap0050685	X		X	

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063

Project Name: 20220426040809-Eurofin-21
Project ID: JC0927

Order No.:
Report #: 882647
Phone: 08 8338 1009
Fax:

Received: Apr 26, 2022 1:30 PM
Due: Apr 29, 2022
Priority: 3 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
59	SX_IB_20220424_00_09_SS_Primary_EUF	Apr 24, 2022	12:09AM	AUS Leachate - Reagent Water	M22-Ap0050686	X		X	
60	SX_OB_20220424_04_14_S_S_Primary_EUF	Apr 24, 2022	4:14AM	AUS Leachate - Reagent Water	M22-Ap0050687	X		X	
61	SX_OB_20220424_08_07_S_S_Triplicate_EUF	Apr 24, 2022	8:07AM	AUS Leachate - Reagent Water	M22-Ap0050688	X		X	
62	SX_IB_20220424_08_14_SS_Primary_EUF	Apr 24, 2022	8:14AM	AUS Leachate - Reagent Water	M22-Ap0050689	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
63	SX_OB_20220424_12_10_S_S_Primary_EUF	Apr 24, 2022	12:10PM	AUS Leachate - Reagent Water	M22-Ap0050690	X		X	
64	SX_IB_20220424_15_58_SS_Primary_EUF	Apr 24, 2022	3:58PM	AUS Leachate - Reagent Water	M22-Ap0050691	X		X	
65	SX_IB_20220424_15_59_SS_Duplicate_EUF	Apr 24, 2022	3:59PM	AUS Leachate - Reagent Water	M22-Ap0050692	X		X	
66	SX_IB_20220424_19_58_SS_Primary_EUF	Apr 24, 2022	7:58PM	AUS Leachate - Reagent Water	M22-Ap0050693	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
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Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
67	SX_IB_20220425_03_50_SS_Primary_EUF	Apr 25, 2022	10:30AM	AUS Leachate - Reagent Water	M22-Ap0050694	X		X	
68	SX_IB_20220425_03_59_SS_Primary_EUF	Apr 25, 2022	4:19AM	AUS Leachate - Reagent Water	M22-Ap0050695	X		X	
69	SX_OB_20220425_04_19_S_S_Triplicate_EUF	Apr 25, 2022	4:19AM	AUS Leachate - Reagent Water	M22-Ap0050696	X		X	
70	SX_IB_20220425_07_57_SS_Triplicate_EUF	Apr 25, 2022	7:57AM	AUS Leachate - Reagent Water	M22-Ap0050697	X		X	

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Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
71	SX_IB_20220425_08_04_SS_Primary_EUF	Apr 25, 2022	8:04AM	AUS Leachate - Reagent Water	M22-Ap0050698	X		X	
72	SX_IB_20220425_11_57_SS_Primary_EUF	Apr 25, 2022	11:57AM	AUS Leachate - Reagent Water	M22-Ap0050699	X		X	
73	SX_IB_20220425_15_56_SS_Primary_EUF	Apr 25, 2022	3:56PM	AUS Leachate - Reagent Water	M22-Ap0050700	X		X	
74	SX_IB_20220425_15_57_SS_Duplicate_EUF	Apr 25, 2022	3:57PM	AUS Leachate - Reagent Water	M22-Ap0050701	X		X	
75	SX_IB_202204	Apr 25, 2022	7:53PM	AUS Leachate	M22-	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
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Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	25_19_53_SS _Primary_EUF			- Reagent Water	Ap0050702				
76	SX_IB_202204 25_23_57_SS _Primary_EUF	Apr 25, 2022	11:57PM	AUS Leachate - Reagent Water	M22- Ap0050703	X		X	
77	SX_IB_202204 26_03_55_SS _Primary_EUF	Apr 26, 2022	3:55AM	AUS Leachate - Reagent Water	M22- Ap0050704	X		X	
Test Counts						50	25	77	25

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	µg/L: micrograms per litre
ppm: parts per million	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Total Recoverable Hydrocarbons						
TRH C6-C9	mg/kg	< 20		20	Pass	
TRH C10-C14	mg/kg	< 20		20	Pass	
TRH C15-C28	mg/kg	< 50		50	Pass	
TRH C29-C36	mg/kg	< 50		50	Pass	
Naphthalene	mg/kg	< 0.5		0.5	Pass	
TRH C6-C10	mg/kg	< 20		20	Pass	
TRH >C10-C16	mg/kg	< 50		50	Pass	
TRH >C16-C34	mg/kg	< 100		100	Pass	
TRH >C34-C40	mg/kg	< 100		100	Pass	
Method Blank						
Volatile Organics						
Hexachlorobutadiene	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Volatile Organics						
1.1-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5		0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5		0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5		0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5		0.5	Pass	
Allyl chloride	mg/kg	< 0.5		0.5	Pass	
Benzene	mg/kg	< 0.1		0.1	Pass	
Bromobenzene	mg/kg	< 0.5		0.5	Pass	
Bromochloromethane	mg/kg	< 0.5		0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5		0.5	Pass	
Bromoform	mg/kg	< 0.5		0.5	Pass	
Bromomethane	mg/kg	< 0.5		0.5	Pass	
Carbon disulfide	mg/kg	< 0.5		0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5		0.5	Pass	
Chlorobenzene	mg/kg	< 0.5		0.5	Pass	
Chloroethane	mg/kg	< 0.5		0.5	Pass	
Chloroform	mg/kg	< 0.5		0.5	Pass	
Chloromethane	mg/kg	< 0.5		0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5		0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1			1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1			1	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Cyanide (total)	mg/kg	< 5			5	Pass	
Fluoride (Total)	mg/kg	< 100			100	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 2			2	Pass	
Tin	mg/kg	< 10			10	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/kg	< 5		5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5		5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5		5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5		5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5		5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5		5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5		5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5		5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5		5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5		5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5		5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5		5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5		5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5		5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5		5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10		10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10		10	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5		5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5		5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5		5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5		5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5		5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5		5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5		5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5		5	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10		10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5		5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons						
TRH C6-C9	%	114		70-130	Pass	
TRH C10-C14	%	101		70-130	Pass	
Naphthalene	%	92		70-130	Pass	
TRH C6-C10	%	115		70-130	Pass	
TRH >C10-C16	%	106		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1.1-Dichloroethene	%	97		70-130	Pass	
1.1.1-Trichloroethane	%	91		70-130	Pass	
1.2-Dichlorobenzene	%	88		70-130	Pass	
1.2-Dichloroethane	%	112		70-130	Pass	
Benzene	%	103		70-130	Pass	
Ethylbenzene	%	108		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	103			70-130	Pass	
Toluene	%	94			70-130	Pass	
Trichloroethene	%	99			70-130	Pass	
Xylenes - Total*	%	105			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	80			70-130	Pass	
Acenaphthylene	%	92			70-130	Pass	
Anthracene	%	75			70-130	Pass	
Benz(a)anthracene	%	100			70-130	Pass	
Benzo(a)pyrene	%	72			70-130	Pass	
Benzo(b&i)fluoranthene	%	74			70-130	Pass	
Benzo(g,h,i)perylene	%	77			70-130	Pass	
Benzo(k)fluoranthene	%	97			70-130	Pass	
Chrysene	%	85			70-130	Pass	
Dibenz(a,h)anthracene	%	73			70-130	Pass	
Fluoranthene	%	72			70-130	Pass	
Fluorene	%	80			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	80			70-130	Pass	
Naphthalene	%	81			70-130	Pass	
Phenanthrene	%	100			70-130	Pass	
Pyrene	%	74			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	100			70-130	Pass	
4,4'-DDD	%	123			70-130	Pass	
4,4'-DDE	%	72			70-130	Pass	
4,4'-DDT	%	90			70-130	Pass	
a-HCH	%	97			70-130	Pass	
Aldrin	%	97			70-130	Pass	
b-HCH	%	89			70-130	Pass	
d-HCH	%	98			70-130	Pass	
Dieldrin	%	97			70-130	Pass	
Endosulfan I	%	102			70-130	Pass	
Endosulfan II	%	87			70-130	Pass	
Endosulfan sulphate	%	93			70-130	Pass	
Endrin	%	73			70-130	Pass	
Endrin aldehyde	%	83			70-130	Pass	
Endrin ketone	%	85			70-130	Pass	
g-HCH (Lindane)	%	88			70-130	Pass	
Heptachlor	%	104			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	101			70-130	Pass	
Methoxychlor	%	83			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	110			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	73			25-140	Pass	
2,4-Dichlorophenol	%	84			25-140	Pass	
2,4,5-Trichlorophenol	%	64			25-140	Pass	
2,4,6-Trichlorophenol	%	84			25-140	Pass	
2,6-Dichlorophenol	%	52			25-140	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
4-Chloro-3-methylphenol	%	70		25-140	Pass	
Pentachlorophenol	%	57		25-140	Pass	
Tetrachlorophenols - Total	%	32		25-140	Pass	
LCS - % Recovery						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	%	52		25-140	Pass	
2-Methyl-4,6-dinitrophenol	%	53		25-140	Pass	
2-Nitrophenol	%	84		25-140	Pass	
2,4-Dimethylphenol	%	58		25-140	Pass	
2,4-Dinitrophenol	%	53		25-140	Pass	
2-Methylphenol (o-Cresol)	%	54		25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	87		25-140	Pass	
4-Nitrophenol	%	50		25-140	Pass	
Dinoseb	%	63		25-140	Pass	
Phenol	%	67		25-140	Pass	
LCS - % Recovery						
Chromium (hexavalent)	%	86		70-130	Pass	
Cyanide (total)	%	99		70-130	Pass	
Fluoride (Total)	%	93		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	106		80-120	Pass	
Cadmium	%	112		80-120	Pass	
Chromium	%	111		80-120	Pass	
Copper	%	110		80-120	Pass	
Lead	%	114		80-120	Pass	
Mercury	%	106		80-120	Pass	
Molybdenum	%	110		80-120	Pass	
Nickel	%	110		80-120	Pass	
Selenium	%	106		80-120	Pass	
Silver	%	112		80-120	Pass	
Tin	%	106		80-120	Pass	
Zinc	%	109		80-120	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	98		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	103		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	110		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	114		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	116		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	111		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	126		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	118		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	127		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	149		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	137		50-150	Pass	
LCS - % Recovery						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	%	110		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	115		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	94		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	103		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	102		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	108		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	94			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFASs)								
Perfluorobutanesulfonic acid (PFBS)	%	118			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	119			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	107			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	110			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	105			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	67			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	112			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	132			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	108			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	109			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	111			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	106			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons								
				Result 1				
Acenaphthene	M22-Ap0047241	NCP	%	111		70-130	Pass	
Acenaphthylene	M22-Ap0047241	NCP	%	117		70-130	Pass	
Anthracene	M22-Ap0047241	NCP	%	94		70-130	Pass	
Benz(a)anthracene	M22-Ap0047241	NCP	%	85		70-130	Pass	
Benzo(a)pyrene	M22-Ap0047241	NCP	%	95		70-130	Pass	
Benzo(b&i)fluoranthene	M22-Ap0047241	NCP	%	82		70-130	Pass	
Benzo(g,h,i)perylene	M22-Ap0047241	NCP	%	96		70-130	Pass	
Benzo(k)fluoranthene	M22-Ap0047241	NCP	%	82		70-130	Pass	
Chrysene	M22-Ap0047241	NCP	%	86		70-130	Pass	
Dibenz(a,h)anthracene	M22-Ap0047241	NCP	%	95		70-130	Pass	
Fluoranthene	M22-Ap0047241	NCP	%	90		70-130	Pass	
Fluorene	M22-Ap0047241	NCP	%	103		70-130	Pass	
Indeno(1,2,3-cd)pyrene	M22-Ap0047241	NCP	%	108		70-130	Pass	
Naphthalene	M22-Ap0047241	NCP	%	110		70-130	Pass	
Phenanthrene	M22-Ap0047241	NCP	%	77		70-130	Pass	
Pyrene	M22-Ap0047241	NCP	%	89		70-130	Pass	
Spike - % Recovery								
Phenols (Halogenated)								
				Result 1				
2-Chlorophenol	M22-Ap0047241	NCP	%	82		30-130	Pass	
2,4-Dichlorophenol	M22-Ap0047241	NCP	%	111		30-130	Pass	
2,4,5-Trichlorophenol	M22-Ap0047241	NCP	%	51		30-130	Pass	
2,4,6-Trichlorophenol	M22-Ap0047241	NCP	%	53		30-130	Pass	
2,6-Dichlorophenol	M22-Ap0047241	NCP	%	63		30-130	Pass	
4-Chloro-3-methylphenol	M22-Ap0047241	NCP	%	95		30-130	Pass	
Pentachlorophenol	M22-Ap0047241	NCP	%	103		30-130	Pass	
Tetrachlorophenols - Total	M22-Ap0047241	NCP	%	40		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)								
				Result 1				
2-Cyclohexyl-4,6-dinitrophenol	M22-Ap0047241	NCP	%	42		30-130	Pass	
2-Methyl-4,6-dinitrophenol	M22-Ap0047241	NCP	%	100		30-130	Pass	
2-Nitrophenol	M22-Ap0047241	NCP	%	99		30-130	Pass	
2,4-Dimethylphenol	M22-Ap0047241	NCP	%	87		30-130	Pass	
2-Methylphenol (o-Cresol)	M22-Ap0047241	NCP	%	83		30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Ap0047241	NCP	%	107		30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
4-Nitrophenol	M22-Ap0047241	NCP	%	50		30-130	Pass	
Dinoseb	M22-Ap0047241	NCP	%	47		30-130	Pass	
Phenol	M22-Ap0047241	NCP	%	89		30-130	Pass	
Spike - % Recovery								
				Result 1				
Chromium (hexavalent)	M22-Ap0050628	CP	%	82		70-130	Pass	
Fluoride (Total)	M22-Ap0040378	NCP	%	84		70-130	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	M22-Ap0050758	NCP	%	99		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ap0050758	NCP	%	103		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ap0050758	NCP	%	97		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ap0050758	NCP	%	107		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ap0050758	NCP	%	111		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Ap0050758	NCP	%	108		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ap0050758	NCP	%	128		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0050758	NCP	%	123		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ap0050758	NCP	%	125		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0050758	NCP	%	118		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0050758	NCP	%	118		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				
Perfluorooctane sulfonamide (FOSA)	M22-Ap0050758	NCP	%	108		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0050758	NCP	%	115		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0050758	NCP	%	101		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0050758	NCP	%	111		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0050758	NCP	%	109		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0050758	NCP	%	90		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0050758	NCP	%	82		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1				
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0050758	NCP	%	97		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ap0050758	NCP	%	117		50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0050758	NCP	%	129		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0050758	NCP	%	138		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0050758	NCP	%	142		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0050758	NCP	%	79		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0050758	NCP	%	142		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0050758	NCP	%	99		50-150	Pass	
Spike - % Recovery								

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0050758	NCP	%	101		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0050758	NCP	%	124		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0050758	NCP	%	116		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0050758	NCP	%	84		50-150	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	M22-Ap0040342	NCP	%	71		70-130	Pass	
Aroclor-1260	M22-Ap0040342	NCP	%	80		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	M22-Ap0050641	CP	%	79		70-130	Pass	
TRH C10-C14	M22-Ap0050641	CP	%	108		70-130	Pass	
Naphthalene	M22-Ap0050641	CP	%	93		70-130	Pass	
TRH C6-C10	M22-Ap0050641	CP	%	77		70-130	Pass	
TRH >C10-C16	M22-Ap0050641	CP	%	110		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1,1-Dichloroethene	M22-Ap0050641	CP	%	95		70-130	Pass	
1,1,1-Trichloroethane	M22-Ap0050641	CP	%	89		70-130	Pass	
1,2-Dichlorobenzene	M22-Ap0050641	CP	%	92		70-130	Pass	
1,2-Dichloroethane	M22-Ap0050641	CP	%	113		70-130	Pass	
Benzene	M22-Ap0050641	CP	%	96		70-130	Pass	
Ethylbenzene	M22-Ap0050641	CP	%	94		70-130	Pass	
m&p-Xylenes	M22-Ap0050641	CP	%	92		70-130	Pass	
o-Xylene	M22-Ap0050641	CP	%	93		70-130	Pass	
Toluene	M22-Ap0050641	CP	%	98		70-130	Pass	
Trichloroethene	M22-Ap0050641	CP	%	101		70-130	Pass	
Xylenes - Total*	M22-Ap0050641	CP	%	93		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	M22-Ap0050641	CP	%	99		70-130	Pass	
4,4'-DDD	M22-Ap0050641	CP	%	91		70-130	Pass	
4,4'-DDE	M22-Ap0050641	CP	%	76		70-130	Pass	
4,4'-DDT	M22-Ap0050641	CP	%	123		70-130	Pass	
a-HCH	M22-Ap0050641	CP	%	85		70-130	Pass	
Aldrin	M22-Ap0050641	CP	%	72		70-130	Pass	
b-HCH	M22-Ap0050641	CP	%	74		70-130	Pass	
d-HCH	M22-Ap0050641	CP	%	100		70-130	Pass	
Dieldrin	M22-Ap0050641	CP	%	95		70-130	Pass	
Endosulfan I	M22-Ap0050641	CP	%	71		70-130	Pass	
Endosulfan II	M22-Ap0050641	CP	%	96		70-130	Pass	
Endosulfan sulphate	M22-Ap0050641	CP	%	87		70-130	Pass	
Endrin	M22-Ap0050641	CP	%	72		70-130	Pass	
Endrin aldehyde	M22-Ap0050641	CP	%	103		70-130	Pass	
Endrin ketone	M22-Ap0050641	CP	%	85		70-130	Pass	
g-HCH (Lindane)	M22-Ap0050641	CP	%	106		70-130	Pass	
Heptachlor	M22-Ap0050641	CP	%	123		70-130	Pass	
Heptachlor epoxide	M22-Ap0050641	CP	%	96		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	M22-Ap0050641	CP	%	81		70-130	Pass	
Methoxychlor	M22-Ap0050641	CP	%	123		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	M22-Ap0050641	CP	%	92		75-125	Pass	
Cadmium	M22-Ap0050641	CP	%	110		75-125	Pass	
Chromium	M22-Ap0050641	CP	%	79		75-125	Pass	
Copper	M22-Ap0050641	CP	%	95		75-125	Pass	
Lead	M22-Ap0050641	CP	%	105		75-125	Pass	
Mercury	M22-Ap0050641	CP	%	104		75-125	Pass	
Molybdenum	M22-Ap0050641	CP	%	115		75-125	Pass	
Nickel	M22-Ap0050641	CP	%	89		75-125	Pass	
Selenium	M22-Ap0050641	CP	%	94		75-125	Pass	
Silver	M22-Ap0050641	CP	%	111		75-125	Pass	
Tin	M22-Ap0050641	CP	%	108		75-125	Pass	
Zinc	M22-Ap0050641	CP	%	74		75-125	Fail	Q08
Spike - % Recovery								
				Result 1				
Chromium (hexavalent)	M22-Ap0050646	CP	%	85		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	M22-Ap0050650	CP	%	99		70-130	Pass	
Naphthalene	M22-Ap0050650	CP	%	130		70-130	Pass	
TRH C6-C10	M22-Ap0050650	CP	%	99		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1.1-Trichloroethane	M22-Ap0050650	CP	%	82		70-130	Pass	
1.2-Dichlorobenzene	M22-Ap0050650	CP	%	120		70-130	Pass	
1.2-Dichloroethane	M22-Ap0050650	CP	%	113		70-130	Pass	
Benzene	M22-Ap0050650	CP	%	99		70-130	Pass	
Ethylbenzene	M22-Ap0050650	CP	%	108		70-130	Pass	
m&p-Xylenes	M22-Ap0050650	CP	%	105		70-130	Pass	
o-Xylene	M22-Ap0050650	CP	%	106		70-130	Pass	
Toluene	M22-Ap0050650	CP	%	127		70-130	Pass	
Trichloroethene	M22-Ap0050650	CP	%	104		70-130	Pass	
Xylenes - Total*	M22-Ap0050650	CP	%	105		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	M22-Ap0050651	CP	%	117		70-130	Pass	
4.4'-DDD	M22-Ap0050651	CP	%	123		70-130	Pass	
4.4'-DDE	M22-Ap0050651	CP	%	123		70-130	Pass	
4.4'-DDT	M22-Ap0050651	CP	%	85		70-130	Pass	
a-HCH	M22-Ap0050651	CP	%	123		70-130	Pass	
Aldrin	M22-Ap0050651	CP	%	121		70-130	Pass	
b-HCH	M22-Ap0050651	CP	%	85		70-130	Pass	
d-HCH	M22-Ap0050651	CP	%	97		70-130	Pass	
Dieldrin	M22-Ap0050651	CP	%	115		70-130	Pass	
Endosulfan I	M22-Ap0050651	CP	%	126		70-130	Pass	
Endosulfan II	M22-Ap0050651	CP	%	119		70-130	Pass	
Endosulfan sulphate	M22-Ap0050651	CP	%	93		70-130	Pass	
Endrin	M22-Ap0050651	CP	%	102		70-130	Pass	
Endrin aldehyde	M22-Ap0050651	CP	%	89		70-130	Pass	
Endrin ketone	M22-Ap0050651	CP	%	113		70-130	Pass	
g-HCH (Lindane)	M22-Ap0050651	CP	%	123		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	M22-Ap0050651	CP	%	97			70-130	Pass	
Heptachlor epoxide	M22-Ap0050651	CP	%	122			70-130	Pass	
Hexachlorobenzene	M22-Ap0050651	CP	%	83			70-130	Pass	
Methoxychlor	M22-Ap0050651	CP	%	85			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Ap0050628	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Ap0050628	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Ethylbenzene	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-Ap0050628	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1,2-Dichloroethene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,3-Dichloropropene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-Ap0050628	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Methoxychlor	M22-Ap0050628	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M22-Ap0050628	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M22-Ap0050628	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M22-Ap0050628	CP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M22-Ap0050628	CP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M22-Ap0050628	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M22-Ap0050628	CP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M22-Ap0050628	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M22-Ap0050628	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M22-Ap0050628	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M22-Ap0050628	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M22-Ap0050628	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M22-Ap0050628	CP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M22-Ap0050628	CP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M22-Ap0050628	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Fluoride (Total)	M22-Ap0050628	CP	mg/kg	< 100	< 100	<1	30%	Pass
% Moisture	M22-Ap0050628	CP	%	32	32	2.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M22-Ap0050628	CP	mg/kg	54	54	<1	30%	Pass
Cadmium	M22-Ap0050628	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M22-Ap0050628	CP	mg/kg	150	150	1.0	30%	Pass
Copper	M22-Ap0050628	CP	mg/kg	79	80	1.0	30%	Pass
Lead	M22-Ap0050628	CP	mg/kg	6.5	6.7	3.0	30%	Pass
Mercury	M22-Ap0050628	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M22-Ap0050628	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M22-Ap0050628	CP	mg/kg	200	200	<1	30%	Pass
Selenium	M22-Ap0050628	CP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M22-Ap0050628	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tin	M22-Ap0050628	CP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M22-Ap0050628	CP	mg/kg	150	150	2.0	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0050631	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0050631	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0050631	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0050631	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-Ap0050636	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	M22-Ap0050640	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C10-C14	M22-Ap0050640	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M22-Ap0050640	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	M22-Ap0050640	CP	mg/kg	< 50	< 50	<1	30%	Pass
Naphthalene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	M22-Ap0050640	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	M22-Ap0050640	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M22-Ap0050640	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	M22-Ap0050640	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Hexachlorobutadiene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trichlorobenzene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Dibromomethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-Ap0050640	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1,2-Dichloroethene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,3-Dichloropropene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-Ap0050640	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Heptachlor epoxide	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M22-Ap0050640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M22-Ap0050640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M22-Ap0050640	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M22-Ap0050640	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M22-Ap0050640	CP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M22-Ap0050640	CP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M22-Ap0050640	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M22-Ap0050640	CP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M22-Ap0050640	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M22-Ap0050640	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M22-Ap0050640	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M22-Ap0050640	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M22-Ap0050640	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M22-Ap0050640	CP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M22-Ap0050640	CP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M22-Ap0050640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
pH (1:5 Aqueous extract at 25°C as rec.)	M22-Ap0050640	CP	pH Units	8.0	8.1	pass	30%	Pass
% Moisture	M22-Ap0050640	CP	%	32	27	16	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Fluoride (Total)	M22-Ap0050641	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M22-Ap0050641	CP	mg/kg	41	42	2.0	30%	Pass
Cadmium	M22-Ap0050641	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M22-Ap0050641	CP	mg/kg	130	130	2.0	30%	Pass
Copper	M22-Ap0050641	CP	mg/kg	77	79	3.0	30%	Pass
Lead	M22-Ap0050641	CP	mg/kg	5.4	5.5	1.0	30%	Pass
Mercury	M22-Ap0050641	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M22-Ap0050641	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M22-Ap0050641	CP	mg/kg	180	190	1.0	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Selenium	M22-Ap0050641	CP	mg/kg	2.0	< 2	2.0	30%	Pass
Silver	M22-Ap0050641	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tin	M22-Ap0050641	CP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M22-Ap0050641	CP	mg/kg	150	160	4.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-Ap0050642	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0050646	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0050646	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0050646	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0050646	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M22-Ap0050650	CP	%	31	33	7.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-Ap0050651	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Fluoride (Total)	M22-Ap0050652	CP	mg/kg	< 100	< 100	<1	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

Michael Cassidy	Analytical Services Manager
Linda Chourman	Senior Analyst (NSW)
Mary Makarios	Senior Analyst (NSW)
Joseph Edouard	Senior Analyst (VIC)
Scott Beddoes	Senior Analyst (NSW)
Vivian Wang	Senior Analyst (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Agon Environmental Pty Ltd - VIC
3/224 Glen Osmond Road
Fullarton
SA 5063



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition
Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection, proficiency testing scheme providers and
reference materials producers reports and certificates.

Attention: **David Lawson**

Report **882647-W**
Project name **20220426040809-Eurofin-21**
Project ID **JC0927**
Received Date **Apr 26, 2022**

Client Sample ID			SX_OB_20220 423_16_21_SR _Rinsate_EUF	SX_OB_20220 423_16_24_SB _Blank_EUF
Sample Matrix			Water	Water
Eurofins Sample No.			M22- Ap0050633	M22- Ap0050634
Date Sampled			Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	72	64
13C5-PFPeA (surr.)	1	%	92	84
13C5-PFHxA (surr.)	1	%	89	77
13C4-PFHpA (surr.)	1	%	80	70
13C8-PFOA (surr.)	1	%	90	75
13C5-PFNA (surr.)	1	%	72	63
13C6-PFDA (surr.)	1	%	70	55
13C2-PFUnDA (surr.)	1	%	51	41
13C2-PFDoDA (surr.)	1	%	51	39
13C2-PFTeDA (surr.)	1	%	39	24
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	65	57

Client Sample ID			SX_OB_20220 423_16_21_SR _Rinsate_EUF	SX_OB_20220 423_16_24_SB _Blank_EUF
Sample Matrix			Water	Water
Eurofins Sample No.			M22- Ap0050633	M22- Ap0050634
Date Sampled			Apr 23, 2022	Apr 23, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
D3-N-MeFOSA (surr.)	1	%	35	35
D5-N-EtFOSA (surr.)	1	%	41	38
D7-N-MeFOSE (surr.)	1	%	40	56
D9-N-EtFOSE (surr.)	1	%	55	58
D5-N-EtFOSAA (surr.)	1	%	33	29
D3-N-MeFOSAA (surr.)	1	%	54	49
Perfluoroalkyl sulfonic acids (PFASs)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	84	73
18O2-PFHxS (surr.)	1	%	93	80
13C8-PFOS (surr.)	1	%	87	72
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	51	44
13C2-6:2 FTSA (surr.)	1	%	75	60
13C2-8:2 FTSA (surr.)	1	%	86	66
13C2-10:2 FTSA (surr.)	1	%	74	42
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Apr 26, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Apr 26, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Apr 26, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Apr 26, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Apr 26, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_OB_20220423_08_14_S_S_Triplicate_EUF	Apr 23, 2022	8:14AM	Soil	M22-Ap0050628		X	X	X
2	SX_OB_20220423_08_20_S_S_Primary_EUF	Apr 23, 2022	8:20AM	Soil	M22-Ap0050629		X	X	X
3	SX_IB_20220423_12_15_SS_Primary_EUF	Apr 23, 2022	12:15PM	Soil	M22-Ap0050630		X	X	X
4	SX_OB_20220423_04_00_S_S_Primary_EUF	Apr 23, 2022	4:00PM	Soil	M22-		X	X	X

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
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Project Name: 20220426040809-Eurofin-21
Project ID: JC0927

Order No.:
Report #: 882647
Phone: 08 8338 1009
Fax:

Received: Apr 26, 2022 1:30 PM
Due: Apr 29, 2022
Priority: 3 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	423_16_00_S S_Primary_EU F				Ap0050631				
5	SX_OB_20220 423_16_01_S S_Duplicate_E UF	Apr 23, 2022	4:01PM	Soil	M22- Ap0050632		X	X	X
6	SX_OB_20220 423_16_21_S R_Rinsate_EU F	Apr 23, 2022	4:21PM	Water	M22- Ap0050633			X	
7	SX_OB_20220 423_16_24_S B_Blank_EUF	Apr 23, 2022	4:24PM	Water	M22- Ap0050634			X	

Company Name: Agon Environmental Pty Ltd - VIC
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Received: Apr 26, 2022 1:30 PM
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Priority: 3 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
8	SX_OB_20220423_20_10_S_S_Primary_EU_F	Apr 23, 2022	8:19PM	Soil	M22-Ap0050635		X	X	X
9	SX_IB_20220424_00_09_SS_Primary_EUF	Apr 24, 2022	12:09AM	Soil	M22-Ap0050636		X	X	X
10	SX_OB_20220424_04_14_S_S_Primary_EU_F	Apr 24, 2022	4:14AM	Soil	M22-Ap0050637		X	X	X
11	SX_OB_20220424_08_07_S_S_Triplicate_E	Apr 24, 2022	8:07AM	Soil	M22-Ap0050638		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	UF								
12	SX_IB_20220424_08_14_SS_Primary_EUF	Apr 24, 2022	8:14AM	Soil	M22-Ap0050639		X	X	X
13	SX_OB_20220424_12_10_SS_Primary_EUF	Apr 24, 2022	12:10PM	Soil	M22-Ap0050640		X	X	X
14	SX_IB_20220424_15_58_SS_Primary_EUF	Apr 24, 2022	3:58PM	Soil	M22-Ap0050641		X	X	X
15	SX_IB_20220424_15_59_SS_Duplicate_EU	Apr 24, 2022	3:59PM	Soil	M22-Ap0050642		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Duplicate_EU F								
16	SX_IB_202204 24_19_58_SS _Primary_EUF	Apr 24, 2022	7:58PM	Soil	M22- Ap0050643		X	X	X
17	SX_IB_202204 25_03_50_SS _Primary_EUF	Apr 25, 2022	10:30AM	Soil	M22- Ap0050644		X	X	X
18	SX_IB_202204 25_03_59_SS _Primary_EUF	Apr 25, 2022	4:19AM	Soil	M22- Ap0050645		X	X	X
19	SX_OB_20220 425_04_19_S S_Triplicate_E	Apr 25, 2022	4:19AM	Soil	M22- Ap0050646		X	X	X

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063
Project Name: 20220426040809-Eurofin-21
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Received: Apr 26, 2022 1:30 PM
Due: Apr 29, 2022
Priority: 3 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	UF								
20	SX_IB_202204 25_07_57_SS _Triplicate_EU F	Apr 25, 2022	7:57AM	Soil	M22- Ap0050647		X	X	X
21	SX_IB_202204 25_08_04_SS _Primary_EUF	Apr 25, 2022	8:04AM	Soil	M22- Ap0050648		X	X	X
22	SX_IB_202204 25_11_57_SS _Primary_EUF	Apr 25, 2022	11:57AM	Soil	M22- Ap0050649		X	X	X
23	SX_IB_202204 25_15_56_SS _Primary_EUF	Apr 25, 2022	3:56PM	Soil	M22- Ap0050650		X	X	X

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Fullarton
SA 5063

Project Name: 20220426040809-Eurofin-21
Project ID: JC0927

Order No.:
Report #: 882647
Phone: 08 8338 1009
Fax:

Received: Apr 26, 2022 1:30 PM
Due: Apr 29, 2022
Priority: 3 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
24	SX_IB_20220425_15_57_SS_Duplicate_EUF	Apr 25, 2022	3:57PM	Soil	M22-Ap0050651		X	X	X
25	SX_IB_20220425_19_53_SS_Primary_EUF	Apr 25, 2022	7:53PM	Soil	M22-Ap0050652		X	X	X
26	SX_IB_20220425_23_57_SS_Primary_EUF	Apr 25, 2022	11:57PM	Soil	M22-Ap0050653		X	X	X
27	SX_IB_20220426_03_55_SS_Primary_EUF	Apr 26, 2022	3:55AM	Soil	M22-Ap0050654		X	X	X
28	SX_OB_20220	Apr 23, 2022	8:14AM	AUS Leachate	M22-	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 26, 2022 1:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	882647	Due:	Apr 29, 2022
Project Name:	20220426040809-Eurofin-21	Phone:	08 8338 1009	Priority:	3 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	423_08_14_S S_Triplicate_E UF			- pH 5.0	Ap0050655				
29	SX_OB_20220 423_08_20_S S_Primary_EU F	Apr 23, 2022	8:20AM	AUS Leachate - pH 5.0	M22- Ap0050656	X		X	
30	SX_IB_202204 23_12_15_SS _Primary_EUF	Apr 23, 2022	12:15PM	AUS Leachate - pH 5.0	M22- Ap0050657	X		X	
31	SX_OB_20220 423_16_00_S S_Primary_EU F	Apr 23, 2022	4:00PM	AUS Leachate - pH 5.0	M22- Ap0050658	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
32	SX_OB_20220423_16_01_S_S_Duplicate_EUF	Apr 23, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ap0050659	X		X	
33	SX_OB_20220423_20_10_S_S_Primary_EUF	Apr 23, 2022	8:19PM	AUS Leachate - pH 5.0	M22-Ap0050660	X		X	
34	SX_IB_20220424_00_09_SS_Primary_EUF	Apr 24, 2022	12:09AM	AUS Leachate - pH 5.0	M22-Ap0050661	X		X	
35	SX_OB_20220424_04_14_S_S_Primary_EUF	Apr 24, 2022	4:14AM	AUS Leachate - pH 5.0	M22-Ap0050662	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	F								
36	SX_OB_20220424_08_07_S_S_Triplicate_EUF	Apr 24, 2022	8:07AM	AUS Leachate - pH 5.0	M22-Ap0050663	X		X	
37	SX_IB_20220424_08_14_SS_Primary_EUF	Apr 24, 2022	8:14AM	AUS Leachate - pH 5.0	M22-Ap0050664	X		X	
38	SX_OB_20220424_12_10_S_S_Primary_EUF	Apr 24, 2022	12:10PM	AUS Leachate - pH 5.0	M22-Ap0050665	X		X	
39	SX_IB_20220424_15_58_SS	Apr 24, 2022	3:58PM	AUS Leachate - pH 5.0	M22-Ap0050666	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	24_15_58_SS _Primary_EUF			- pH 5.0	Ap0050666				
40	SX_IB_202204 24_15_59_SS _Duplicate_EU F	Apr 24, 2022	3:59PM	AUS Leachate - pH 5.0	M22- Ap0050667	X		X	
41	SX_IB_202204 24_19_58_SS _Primary_EUF	Apr 24, 2022	7:58PM	AUS Leachate - pH 5.0	M22- Ap0050668	X		X	
42	SX_IB_202204 25_03_50_SS _Primary_EUF	Apr 25, 2022	10:30AM	AUS Leachate - pH 5.0	M22- Ap0050669	X		X	
43	SX_IB_202204 25_03_59_SS	Apr 25, 2022	4:19AM	AUS Leachate - pH 5.0	M22- Ap0050670	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF								
44	SX_OB_20220425_04_19_SS_Triplicate_EUF	Apr 25, 2022	4:19AM	AUS Leachate - pH 5.0	M22-Ap0050671	X		X	
45	SX_IB_20220425_07_57_SS_Triplicate_EUF	Apr 25, 2022	7:57AM	AUS Leachate - pH 5.0	M22-Ap0050672	X		X	
46	SX_IB_20220425_08_04_SS_Primary_EUF	Apr 25, 2022	8:04AM	AUS Leachate - pH 5.0	M22-Ap0050673	X		X	
47	SX_IB_20220425_11_57_SS	Apr 25, 2022	11:57AM	AUS Leachate - pH 5.0	M22-Ap0050674	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	25_11_57_SS _Primary_EUF			- pH 5.0	Ap0050674				
48	SX_IB_202204 25_15_56_SS _Primary_EUF	Apr 25, 2022	3:56PM	AUS Leachate - pH 5.0	M22- Ap0050675	X		X	
49	SX_IB_202204 25_15_57_SS _Duplicate_EU F	Apr 25, 2022	3:57PM	AUS Leachate - pH 5.0	M22- Ap0050676	X		X	
50	SX_IB_202204 25_19_53_SS _Primary_EUF	Apr 25, 2022	7:53PM	AUS Leachate - pH 5.0	M22- Ap0050677	X		X	
51	SX_IB_202204 25_23_57_SS	Apr 25, 2022	11:57PM	AUS Leachate - pH 5.0	M22- Ap0050678	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF								
52	SX_IB_20220426_03_55_SS_Primary_EUF	Apr 26, 2022	3:55AM	AUS Leachate - pH 5.0	M22-Ap0050679	X		X	
53	SX_OB_20220423_08_14_S_S_Triplicate_EUF	Apr 23, 2022	8:14AM	AUS Leachate - Reagent Water	M22-Ap0050680	X		X	
54	SX_OB_20220423_08_20_S_Primary_EUF	Apr 23, 2022	8:20AM	AUS Leachate - Reagent Water	M22-Ap0050681	X		X	
55	SX_IB_20220423_12_15_SS	Apr 23, 2022	12:15PM	AUS Leachate - Reagent	M22-Ap0050682	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	23_12_15_SS _Primary_EUF			- Reagent Water	Ap0050682				
56	SX_OB_20220 423_16_00_S S_Primary_EU F	Apr 23, 2022	4:00PM	AUS Leachate - Reagent Water	M22- Ap0050683	X		X	
57	SX_OB_20220 423_16_01_S S_Duplicate_E UF	Apr 23, 2022	4:01PM	AUS Leachate - Reagent Water	M22- Ap0050684	X		X	
58	SX_OB_20220 423_20_10_S S_Primary_EU F	Apr 23, 2022	8:19PM	AUS Leachate - Reagent Water	M22- Ap0050685	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
59	SX_IB_20220424_00_09_SS_Primary_EUF	Apr 24, 2022	12:09AM	AUS Leachate - Reagent Water	M22-Ap0050686	X		X	
60	SX_OB_20220424_04_14_S_S_Primary_EUF	Apr 24, 2022	4:14AM	AUS Leachate - Reagent Water	M22-Ap0050687	X		X	
61	SX_OB_20220424_08_07_S_S_Triplicate_EUF	Apr 24, 2022	8:07AM	AUS Leachate - Reagent Water	M22-Ap0050688	X		X	
62	SX_IB_20220424_08_14_SS_Primary_EUF	Apr 24, 2022	8:14AM	AUS Leachate - Reagent Water	M22-Ap0050689	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
63	SX_OB_20220424_12_10_S_S_Primary_EUF	Apr 24, 2022	12:10PM	AUS Leachate - Reagent Water	M22-Ap0050690	X		X	
64	SX_IB_20220424_15_58_SS_Primary_EUF	Apr 24, 2022	3:58PM	AUS Leachate - Reagent Water	M22-Ap0050691	X		X	
65	SX_IB_20220424_15_59_SS_Duplicate_EUF	Apr 24, 2022	3:59PM	AUS Leachate - Reagent Water	M22-Ap0050692	X		X	
66	SX_IB_20220424_19_58_SS_Primary_EUF	Apr 24, 2022	7:58PM	AUS Leachate - Reagent Water	M22-Ap0050693	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
67	SX_IB_20220425_03_50_SS_Primary_EUF	Apr 25, 2022	10:30AM	AUS Leachate - Reagent Water	M22-Ap0050694	X		X	
68	SX_IB_20220425_03_59_SS_Primary_EUF	Apr 25, 2022	4:19AM	AUS Leachate - Reagent Water	M22-Ap0050695	X		X	
69	SX_OB_20220425_04_19_S_S_Triplicate_EUF	Apr 25, 2022	4:19AM	AUS Leachate - Reagent Water	M22-Ap0050696	X		X	
70	SX_IB_20220425_07_57_SS_Triplicate_EUF	Apr 25, 2022	7:57AM	AUS Leachate - Reagent Water	M22-Ap0050697	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
71	SX_IB_202204 25_08_04_SS _Primary_EUF	Apr 25, 2022	8:04AM	AUS Leachate - Reagent Water	M22- Ap0050698	X		X	
72	SX_IB_202204 25_11_57_SS _Primary_EUF	Apr 25, 2022	11:57AM	AUS Leachate - Reagent Water	M22- Ap0050699	X		X	
73	SX_IB_202204 25_15_56_SS _Primary_EUF	Apr 25, 2022	3:56PM	AUS Leachate - Reagent Water	M22- Ap0050700	X		X	
74	SX_IB_202204 25_15_57_SS _Duplicate_EU F	Apr 25, 2022	3:57PM	AUS Leachate - Reagent Water	M22- Ap0050701	X		X	
75	SX_IB_202204	Apr 25, 2022	7:53PM	AUS Leachate	M22-	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	25_19_53_SS _Primary_EUF			- Reagent Water	Ap0050702				
76	SX_IB_202204 25_23_57_SS _Primary_EUF	Apr 25, 2022	11:57PM	AUS Leachate - Reagent Water	M22- Ap0050703	X		X	
77	SX_IB_202204 26_03_55_SS _Primary_EUF	Apr 26, 2022	3:55AM	AUS Leachate - Reagent Water	M22- Ap0050704	X		X	
Test Counts						50	25	77	25

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	µg/L: micrograms per litre
ppm: parts per million	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05		0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	82		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	109		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	94		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	80		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	89		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	87		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	104		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	92		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	91		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	109		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	111		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	117			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	134			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	94			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	144			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	96			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	97			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	110			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)								
Perfluorobutanesulfonic acid (PFBS)	%	86			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	66			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	86			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	92			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	77			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	101			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	92			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	54			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	105			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	128			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	101			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	68			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	M22-Ap0047186	NCP	%	132		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ap0047186	NCP	%	132		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ap0047186	NCP	%	111		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ap0047186	NCP	%	103		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ap0047186	NCP	%	109		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Ap0047186	NCP	%	143		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ap0047186	NCP	%	101		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0047186	NCP	%	117		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ap0047186	NCP	%	106		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0047186	NCP	%	149		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0047186	NCP	%	107		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	M22-Ap0047186	NCP	%	137		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0047186	NCP	%	139		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0047186	NCP	%	137		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0047186	NCP	%	135		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0047186	NCP	%	119		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0047186	NCP	%	64			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0047186	NCP	%	63			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0047186	NCP	%	134			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ap0047186	NCP	%	115			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0047186	NCP	%	138			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0047186	NCP	%	139			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0047186	NCP	%	144			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0047186	NCP	%	135			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0047186	NCP	%	115			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0047186	NCP	%	108			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0047186	NCP	%	138			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0047186	NCP	%	138			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0047186	NCP	%	131			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0047186	NCP	%	92			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Ap0046547	NCP	ug/L	3.4	3.4	2.0	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ap0046547	NCP	ug/L	4.9	4.9	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ap0046547	NCP	ug/L	19	21	10	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ap0046547	NCP	ug/L	3.1	3.2	4.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ap0046547	NCP	ug/L	7.8	8.9	13	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ap0046547	NCP	ug/L	0.03	0.03	10	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ap0046547	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0046547	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ap0046547	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M22-Ap0046547	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTEDA)	M22-Ap0046547	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0046547	NCP	ug/L	< 0.05	0.05	13	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0046547	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0046547	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0046547	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0046547	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0046547	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0046547	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0046547	NCP	ug/L	11	13	17	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0046547	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0046547	NCP	ug/L	3.5	3.6	3.0	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0046547	NCP	ug/L	11	12	3.0	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0046547	NCP	ug/L	68	75	11	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0046547	NCP	ug/L	5.1	6.2	19	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0046547	NCP	ug/L	170	190	11	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0046547	NCP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0046547	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0046547	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0046547	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0046547	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Michael Cassidy	Analytical Services Manager
Joseph Edouard	Senior Analyst (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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CHAIN OF CUSTODY RECORD

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03 8564 5000 EnviroSampleVIC@eurofins.com

Company		AGON Environmental - Tunnel Spoil Testing		Project No	JC0927		Project Manager	Craig Trimbur		Sampler(s)	Martha / Toby Gray - Agon Enviro		
Address		Unit H76, 63-85 Turner St, Port Melbourne VIC 3207		Project Name	WGTP-Tunnel Ref: 20220430060211-Eurofin-12		EDD Format	ESdat Equis etc		ESdat	Handed over by WHO		
Contact Name		Craig Trimbur David Lawson		Analysis When matrix are required, please specify 'Soil' or 'Water' S.U.T. code must be used for all S.U.T. pricing	Spot Sample Preparation		Sulphate (SO4), Chloride (Cl), Fluoride (F), Nitrate (NO3), Phosphate (PO4), Ammonium (NH4), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Mercury (Hg), Silver (Ag), Selenium (Se), Zinc (Zn), Cobalt (Co), Vanadium (V), Total Fluoride, pH		PFAS Extended Suite - 0 - 1 - 5ug/kg		ASLP PH - PFAS 0.01-10.05 ug/l		
Phone No		+61 400 826 907 (Craig) +61 490 411 004 (David)			PFAS Extended Suite - 0 - 1 - 5ug/kg		ASLP PH - PFAS 0.01-10.05 ug/l		ASLP P-Permeant - PFAS 0.01-10.05ug/l		Required Turnaround Time (TAT) Default will be 5 days if not ticked		
Special Directions		Please provide an interim lab report if finalised report has not been provided by 14 days from sample receipt.			PFAS Extended Suite - 0 - 1 - 5ug/kg		ASLP PH - PFAS 0.01-10.05 ug/l		ASLP P-Permeant - PFAS 0.01-10.05ug/l		<input type="checkbox"/> Overnight (reporting by Samy) <input type="checkbox"/> Same day <input type="checkbox"/> 1 day <input type="checkbox"/> <input type="checkbox"/> 2 days <input type="checkbox"/> 3 days <input type="checkbox"/> <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other()		
Purchase Order		Please provide eSRN along with other sample receipt documentation.			PFAS Extended Suite - 0 - 1 - 5ug/kg		ASLP PH - PFAS 0.01-10.05 ug/l		ASLP P-Permeant - PFAS 0.01-10.05ug/l		<input type="checkbox"/> Other (please specify, see guidelines) Jar (Glass or HDPE)		
Quote ID No		Agon WGTP TST		PFAS Extended Suite - 0 - 1 - 5ug/kg		ASLP PH - PFAS 0.01-10.05 ug/l		ASLP P-Permeant - PFAS 0.01-10.05ug/l		<input type="checkbox"/> Other() Sample Comments / Dangerous Goods Hazard Warning			
No	Client Sample ID	Sampled Date/Time dd/mm/yyyy hh:mm	Matrix Soil (S) Water (W)										
1	SX_IB_20220429_08_13_SS_Triplicate_EUF	29.04.2022 8:13:00 AM	S	X	X	X	X	X				1	
2	SX_IB_20220429_12_06_SS_Primary_EUF	29.04.2022 12:06:00 AM	S	X	X	X	X	X				1	
3	SX_OB_20220429_16_11_SS_Primary_EUF	29.04.2022 16:11:00 AM	S	X	X	X	X	X				1	
4	SX_OB_20220429_16_13_SS_Duplicate_EUF	29.04.2022 16:13:00 AM	S	X	X	X	X	X				1	
5	SX_OB_20220429_16_30_SR_Rinse_EUF	29.04.2022 16:30:00 AM	W			X						1	
6	SX_OB_20220429_16_31_SB_Blank_EUF	29.04.2022 16:31:00 AM	W			X						1	
7	SX_OB_20220429_19_56_SS_Primary_EUF	29.04.2022 19:56:00 AM	S	X	X	X	X	X				1	
8	SX_OB_20220430_00_00_SS_Primary_EUF	30.04.2022 00:00:00 AM	S	X	X	X	X	X				1	
9	SX_OB_20220430_03_59_SS_Primary_EUF	30.04.2022 03:59:00 AM	S	X	X	X	X	X				1	
10												1	
11												1	
12												1	
13												1	
14												1	
15												1	
16												1	
17												1	
18												1	
19												1	
20												1	
21												1	
22												1	
23												1	
24												1	
25												1	
26												1	
27												1	
Total Counts				7	7	9	7	7				15	
Method of Shipment		<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal		Name		Signature		Date		Time		Temperature	
Laboratory Use Only		Received By: <i>Jake</i>		SYD BNE MEL PER ADL NTL DRW		Signature: <i>Jake</i>		Date: 30/4		Time: 10:00		Temperature:	
Laboratory Use Only		Received By:		SYD BNE MEL PER ADL NTL DRW		Signature:		Date:		Time:		Report No:	

884110

Callum MCEwan

From: David Lawson <David.Lawson@agonenviro.com.au>
Sent: Monday, 2 May 2022 8:55 AM
To: Callum MCEwan
Cc: William OHaire; Michael Cassidy; Harry Bacalis; Adrian Tabacchiera; Mary Makarios; #AU_CAU001_EnviroSampleVic
Subject: RE: Missing COC - Eurofins - Saturday 30th April 2022 - Please Advise
Attachments: 20220430060211-Eurofin-12-Solid_00.xlsx; 20220430060732-Eurofin-12-Water_00.xlsx; 20220502031141-Eurofin-21-Water_00.xlsx; 20220502031840-ALS-21 Water_00.xlsx; 20220430083305-Eurofins-8-Water_00.xlsx

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Callum,

Please find attached

Regards,

David Lawson
Environmental Scientist

Agon Environmental
+61 4 9041 1004

David.Lawson@agonenviro.com.au

From: Callum MCEwan <CallumMCEwan@eurofins.com>
Sent: Monday, 2 May 2022 8:47 AM
To: David Lawson <David.Lawson@agonenviro.com.au>
Cc: William OHaire <William.OHaire@agonenviro.com.au>; Michael Cassidy <MichaelCassidy@eurofins.com>; Harry Bacalis <HarryBacalis@eurofins.com>; Adrian Tabacchiera <AdrianTabacchiera@eurofins.com>; Mary Makarios <MaryMakarios@eurofins.com>; #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>
Subject: RE: Missing COC - Eurofins - Saturday 30th April 2022 - Please Advise

Hi David,

Many thanks for that, we'll action ASAP once received.

Kind Regards,

Callum McEwan

Analytical Service Manager – VIC

Eurofins Environment Testing Australia Pty Ltd
6 Monterey Road | Dandenong South | VIC 3175 | AUSTRALIA
T: +61 3 8564 5053 | M: 0428104484
E: CallumMcEwan@eurofins.com | W: www.eurofins.com.au

From: David Lawson <David.Lawson@agonenviro.com.au>

Sent: Monday, 2 May 2022 8:46 AM

To: Callum McEwan <CallumMcEwan@eurofins.com>

Cc: William O'Haire <William.OHaire@agonenviro.com.au>; Michael Cassidy <MichaelCassidy@eurofins.com>; Harry Bacalis <HarryBacalis@eurofins.com>; Adrian Tabacchiera <AdrianTabacchiera@eurofins.com>; Mary Makarios <MaryMakarios@eurofins.com>; #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>

Subject: RE: Missing COC - Eurofins - Saturday 30th April 2022 - Please Advise

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Thanks Callum,

I will track it down and forward it ASAP

COC for today's pickup will also be sent soon

Thanks,

David Lawson
Environmental Scientist

Agon Environmental
+61 4 9041 1004

David.Lawson@agonenviro.com.au

From: Callum McEwan <CallumMcEwan@eurofins.com>

Sent: Monday, 2 May 2022 8:44 AM

To: David Lawson <David.Lawson@agonenviro.com.au>

Cc: William O'Haire <William.OHaire@agonenviro.com.au>; Michael Cassidy <MichaelCassidy@eurofins.com>; Harry Bacalis <HarryBacalis@eurofins.com>; Adrian

Tabacchiera <Adrian.Tabacchiera@eurofins.com>; Mary Makarios <MaryMakarios@eurofins.com>; #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>

Subject: Missing COC - Eurofins - Saturday 30th April 2022 - Please Advise

Hi David,

Sorry to trouble you in the morning first thing.

Unfortunately we have not received the COC for the WGTP Spoils delivered to Eurofins on Saturday 30th April.

When you have a moment, would you be so kind to send the COC through and we will action ASAP.

Thanks for your time, I look forward in hearing from you soon.

Kind Regards,

Callum McEwan

Analytical Service Manager – VIC

Eurofins Environment Testing Australia Pty Ltd

6 Monterey Road | Dandenong South | VIC 3175 | AUSTRALIA

T: +61 3 8564 5053 | M: 0428104484

E: CallumMcEwan@eurofins.com | W: www.eurofins.com.au

Agon Environmental Pty Ltd - VIC
3/224 Glen Osmond Road
Fullarton
SA 5063



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Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection, proficiency testing scheme providers and
reference materials producers reports and certificates.

Attention: **David Lawson**

Report **884110-L**
Project name **20220430060211-Eurofin-12**
Project ID **JC0927**
Received Date **May 02, 2022**

Client Sample ID			SX_IB_202204 29_08_13_SS Triplicate_EUF	SX_IB_202204 29_12_06_SS Primary_EUF	SX_OB_20220 429_16_11_SS Primary_EUF	SX_OB_20220 429_16_13_SS Duplicate_EU F
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- My0000820	M22- My0000821	M22- My0000822	M22- My0000823
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	83	99	95	83
13C5-PFPeA (surr.)	1	%	97	112	108	97
13C5-PFHxA (surr.)	1	%	76	95	88	81
13C4-PFHpA (surr.)	1	%	82	105	106	85
13C8-PFOA (surr.)	1	%	48	60	58	70
13C5-PFNA (surr.)	1	%	81	100	89	79
13C6-PFDA (surr.)	1	%	64	67	68	67
13C2-PFUnDA (surr.)	1	%	80	76	90	70
13C2-PFDoDA (surr.)	1	%	81	62	90	85
13C2-PFTTeDA (surr.)	1	%	91	26	51	98

Client Sample ID			SX_IB_202204 29_08_13_SS Triplicate_EUF	SX_IB_202204 29_12_06_SS Primary_EUF	SX_OB_20220 429_16_11_SS Primary_EUF	SX_OB_20220 429_16_13_SS Duplicate_EU F
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- My0000820	M22- My0000821	M22- My0000822	M22- My0000823
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	75	78	78	71
D3-N-MeFOSA (surr.)	1	%	108	104	114	100
D5-N-EtFOSA (surr.)	1	%	126	102	124	118
D7-N-MeFOSE (surr.)	1	%	72	79	86	80
D9-N-EtFOSE (surr.)	1	%	77	78	86	80
D5-N-EtFOSAA (surr.)	1	%	55	54	63	47
D3-N-MeFOSAA (surr.)	1	%	46	48	57	50
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	49	47	42	64
18O2-PFHxS (surr.)	1	%	70	88	84	69
13C8-PFOS (surr.)	1	%	68	72	73	55
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	98	121	109	97
13C2-6:2 FTSA (surr.)	1	%	73	89	98	82
13C2-8:2 FTSA (surr.)	1	%	88	115	116	92
13C2-10:2 FTSA (surr.)	1	%	74	66	72	61
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 429_19_56_SS _Primary_EUF	SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF	SX_IB_202204 29_08_13_SS _Triplicate_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0000824	M22- My0000825	M22- My0000826	M22- My0000827
Date Sampled			Apr 29, 2022	Apr 30, 2022	Apr 30, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	7.1
pH (off)	0.1	pH Units	5.0	5.1	5.0	9.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	96	93	82	77
13C5-PFPeA (surr.)	1	%	116	106	96	90
13C5-PFHxA (surr.)	1	%	102	90	79	79
13C4-PFHpA (surr.)	1	%	101	99	91	87
13C8-PFOA (surr.)	1	%	115	31	39	57
13C5-PFNA (surr.)	1	%	102	94	82	89
13C6-PFDA (surr.)	1	%	71	67	74	66
13C2-PFUnDA (surr.)	1	%	87	73	78	87
13C2-PFDoDA (surr.)	1	%	77	76	84	101
13C2-PFTTeDA (surr.)	1	%	30	47	92	102
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	80	79	72	76
D3-N-MeFOSA (surr.)	1	%	95	113	117	122
D5-N-EtFOSA (surr.)	1	%	102	123	127	132
D7-N-MeFOSE (surr.)	1	%	81	85	82	79
D9-N-EtFOSE (surr.)	1	%	77	83	82	79
D5-N-EtFOSAA (surr.)	1	%	44	82	51	62
D3-N-MeFOSAA (surr.)	1	%	44	52	55	53

Client Sample ID			SX_OB_20220 429_19_56_SS _Primary_EUF	SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF	SX_IB_202204 429_08_13_SS _Triplicate_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0000824	M22- My0000825	M22- My0000826	M22- My0000827
Date Sampled			Apr 29, 2022	Apr 30, 2022	Apr 30, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	120	28	32	52
18O2-PFHxS (surr.)	1	%	97	84	74	74
13C8-PFOS (surr.)	1	%	76	77	73	76
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	110	123	118	83
13C2-6:2 FTSA (surr.)	1	%	88	128	92	74
13C2-8:2 FTSA (surr.)	1	%	93	108	109	79
13C2-10:2 FTSA (surr.)	1	%	59	70	93	94
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202204 29_12_06_SS _Primary_EUF	SX_OB_20220 429_16_11_SS _Primary_EUF	SX_OB_20220 429_16_13_SS _Duplicate_EUF	SX_OB_20220 429_19_56_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0000828	M22- My0000829	M22- My0000830	M22- My0000831
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.1	7.1	7.1	7.1
pH (off)	0.1	pH Units	9.6	8.8	8.7	8.7

Client Sample ID			SX_IB_202204 29_12_06_SS_ Primary_EUF	SX_OB_20220 429_16_11_SS_ Primary_EUF	SX_OB_20220 429_16_13_SS_ Duplicate_EU F	SX_OB_20220 429_19_56_SS_ Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0000828	M22- My0000829	M22- My0000830	M22- My0000831
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	94	96	91	97
13C5-PFPeA (surr.)	1	%	105	111	98	112
13C5-PFHxA (surr.)	1	%	94	92	84	105
13C4-PFHpA (surr.)	1	%	99	109	103	95
13C8-PFOA (surr.)	1	%	58	72	88	106
13C5-PFNA (surr.)	1	%	97	116	101	91
13C6-PFDA (surr.)	1	%	69	82	69	74
13C2-PFUnDA (surr.)	1	%	88	106	78	71
13C2-PFDoDA (surr.)	1	%	94	102	89	74
13C2-PFTeDA (surr.)	1	%	85	55	56	31
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	80	97	83	71
D3-N-MeFOSA (surr.)	1	%	124	129	115	94
D5-N-EtFOSA (surr.)	1	%	135	124	116	92
D7-N-MeFOSE (surr.)	1	%	73	90	79	77
D9-N-EtFOSE (surr.)	1	%	79	89	81	72
D5-N-EtFOSAA (surr.)	1	%	58	84	48	66
D3-N-MeFOSAA (surr.)	1	%	55	65	44	49
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_IB_202204 29_12_06_SS Primary_EUF	SX_OB_20220 429_16_11_SS _Primary_EUF	SX_OB_20220 429_16_13_SS Duplicate_EU F	SX_OB_20220 429_19_56_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0000828	M22- My0000829	M22- My0000830	M22- My0000831
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	57	59	45	125
18O2-PFHxS (surr.)	1	%	82	92	87	83
13C8-PFOS (surr.)	1	%	73	85	79	65
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	104	122	84	100
13C2-6:2 FTSA (surr.)	1	%	77	95	80	82
13C2-8:2 FTSA (surr.)	1	%	95	142	134	87
13C2-10:2 FTSA (surr.)	1	%	88	98	80	107
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0000832	M22- My0000833
Date Sampled			Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit		
AUS Leaching Procedure				
Leachate Fluid ^{C01}		comment	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.1	7.1
pH (off)	0.1	pH Units	8.8	8.8
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0000832	M22- My0000833
Date Sampled			Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	102	103
13C5-PFPeA (surr.)	1	%	121	120
13C5-PFHxA (surr.)	1	%	105	106
13C4-PFHpA (surr.)	1	%	118	118
13C8-PFOA (surr.)	1	%	36	34
13C5-PFNA (surr.)	1	%	125	121
13C6-PFDA (surr.)	1	%	105	111
13C2-PFUnDA (surr.)	1	%	113	121
13C2-PFDoDA (surr.)	1	%	117	110
13C2-PFTeDA (surr.)	1	%	55	47
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	99	102
D3-N-MeFOSA (surr.)	1	%	120	120
D5-N-EtFOSA (surr.)	1	%	115	114
D7-N-MeFOSE (surr.)	1	%	103	94
D9-N-EtFOSE (surr.)	1	%	93	94
D5-N-EtFOSAA (surr.)	1	%	70	92
D3-N-MeFOSAA (surr.)	1	%	91	62
Perfluoroalkyl sulfonic acids (PFSA)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	41	58
18O2-PFHxS (surr.)	1	%	95	93
13C8-PFOS (surr.)	1	%	89	98

Client Sample ID			SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0000832	M22- My0000833
Date Sampled			Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit		
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	158	151
13C2-6:2 FTSA (surr.)	1	%	130	137
13C2-8:2 FTSA (surr.)	1	%	140	143
13C2-10:2 FTSA (surr.)	1	%	131	131
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
AUS Leaching Procedure			
pH (initial) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	May 02, 2022	0 Days
pH (Leachate fluid) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	May 02, 2022	0 Days
pH (off) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	May 02, 2022	0 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_IB_20220429_08_13_SS_Triplicate_EU_F	Apr 29, 2022	8:13AM	Soil	M22-My0000811		X	X	X
2	SX_IB_20220429_12_06_SS_Primary_EUF	Apr 29, 2022	12:06PM	Soil	M22-My0000812		X	X	X
3	SX_OB_20220429_16_11_SS_Primary_EU_F	Apr 29, 2022	4:11PM	Soil	M22-My0000813		X	X	X
4	SX_OB_20220	Apr 29, 2022	4:13PM	Soil	M22-		X	X	X

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063
Project Name: 20220430060211-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 884110
Phone: 08 8338 1009
Fax:

Received: May 2, 2022 8:55 AM
Due: May 9, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	429_16_13_S S_Duplicate_EUF				My0000814				
5	SX_OB_20220 429_16_30_S R_Rinsate_EUF	Apr 29, 2022	4:30PM	Water	M22- My0000815			X	
6	SX_OB_20220 429_16_31_S B_Blank_EUF	Apr 29, 2022	4:31PM	Water	M22- My0000816			X	
7	SX_OB_20220 429_19_56_S S_Primary_EUF	Apr 29, 2022	7:56PM	Soil	M22- My0000817		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
8	SX_OB_20220430_00_00_S_S_Primary_EU_F	Apr 30, 2022	12:00AM	Soil	M22-My0000818		X	X	X
9	SX_OB_20220430_03_59_S_S_Primary_EU_F	Apr 30, 2022	3:59AM	Soil	M22-My0000819		X	X	X
10	SX_IB_20220429_08_13_SS_Triplicate_EU_F	Apr 29, 2022	8:13AM	AUS Leachate - pH 5.0	M22-My0000820	X		X	
11	SX_IB_20220429_12_06_SS	Apr 29, 2022	12:06PM	AUS Leachate - pH 5.0	M22-My0000821	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF								
12	SX_OB_20220429_16_11_S_S_Primary_EUF	Apr 29, 2022	4:11PM	AUS Leachate - pH 5.0	M22-My0000822	X		X	
13	SX_OB_20220429_16_13_S_S_Duplicate_EUF	Apr 29, 2022	4:13PM	AUS Leachate - pH 5.0	M22-My0000823	X		X	
14	SX_OB_20220429_19_56_S_S_Primary_EUF	Apr 29, 2022	7:56PM	AUS Leachate - pH 5.0	M22-My0000824	X		X	
15	SX_OB_20220	Apr 30, 2022	12:00AM	AUS Leachate	M22-	X		X	

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063
Project Name: 20220430060211-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 884110
Phone: 08 8338 1009
Fax:

Received: May 2, 2022 8:55 AM
Due: May 9, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
15	SX_OB_20220430_00_00_S_S_Primary_EU_F	Apr 30, 2022	12:00AM	AUS Leachate - pH 5.0	M22-My0000825				
16	SX_OB_20220430_03_59_S_S_Primary_EU_F	Apr 30, 2022	3:59AM	AUS Leachate - pH 5.0	M22-My0000826	X		X	
17	SX_IB_20220429_08_13_SS_Triplicate_EU_F	Apr 29, 2022	8:13AM	AUS Leachate - Reagent Water	M22-My0000827	X		X	
18	SX_IB_20220429_12_06_SS	Apr 29, 2022	12:06PM	AUS Leachate - Reagent	M22-My0000828	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF			Water					
19	SX_OB_20220429_16_11_S_S_Primary_EUF	Apr 29, 2022	4:11PM	AUS Leachate - Reagent Water	M22-My0000829	X		X	
20	SX_OB_20220429_16_13_S_S_Duplicate_EUF	Apr 29, 2022	4:13PM	AUS Leachate - Reagent Water	M22-My0000830	X		X	
21	SX_OB_20220429_19_56_S_S_Primary_EUF	Apr 29, 2022	7:56PM	AUS Leachate - Reagent Water	M22-My0000831	X		X	
22	SX_OB_20220	Apr 30, 2022	12:00AM	AUS Leachate	M22-	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
22	SX_OB_20220430_00_00_S_S_Primary_EU_F	Apr 30, 2022	12:00AM	AUS Leachate - Reagent Water	M22-My0000832				
23	SX_OB_20220430_03_59_S_S_Primary_EU_F	Apr 30, 2022	3:59AM	AUS Leachate - Reagent Water	M22-My0000833	X		X	
Test Counts						14	7	23	7

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	µg/L: micrograms per litre
ppm: parts per million	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05		0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	123		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	112		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	108		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	100		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	109		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	105		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	85		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	115		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	112		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	107		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	122		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code		
LCS - % Recovery									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)	%	119			50-150	Pass			
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	126			50-150	Pass			
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	114			50-150	Pass			
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	108			50-150	Pass			
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	117			50-150	Pass			
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	107			50-150	Pass			
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	80			50-150	Pass			
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA)									
Perfluorobutanesulfonic acid (PFBS)	%	99			50-150	Pass			
Perfluorononanesulfonic acid (PFNS)	%	110			50-150	Pass			
Perfluoropropanesulfonic acid (PFPrS)	%	123			50-150	Pass			
Perfluoropentanesulfonic acid (PFPeS)	%	125			50-150	Pass			
Perfluorohexanesulfonic acid (PFHxS)	%	106			50-150	Pass			
Perfluoroheptanesulfonic acid (PFHpS)	%	111			50-150	Pass			
Perfluorooctanesulfonic acid (PFOS)	%	112			50-150	Pass			
Perfluorodecanesulfonic acid (PFDS)	%	98			50-150	Pass			
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	116			50-150	Pass			
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	128			50-150	Pass			
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	114			50-150	Pass			
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	123			50-150	Pass			
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)									
Perfluorobutanoic acid (PFBA)	M22-My0000822	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)	M22-My0000822	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0000822	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0000822	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0000822	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0000822	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0000822	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0000822	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0000822	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0000822	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-My0000829	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0000829	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0000829	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0000829	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0000829	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0000829	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0000829	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0000829	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0000829	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0000829	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Michael Cassidy	Analytical Services Manager
Mary Makarios	Senior Analyst (NSW)
Joseph Edouard	Senior Analyst (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Agon Environmental Pty Ltd - VIC
3/224 Glen Osmond Road
Fullarton
SA 5063



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition
Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection, proficiency testing scheme providers and
reference materials producers reports and certificates.

Attention: **David Lawson**

Report **884110-S**
Project name **20220430060211-Eurofin-12**
Project ID **JC0927**
Received Date **May 02, 2022**

Client Sample ID			SX_IB_202204 29_08_13_SS_ Triplicate_EUF	SX_IB_202204 29_12_06_SS_ Primary_EUF	SX_OB_20220 429_16_11_SS_ Primary_EUF	SX_OB_20220 429_16_13_SS_ Duplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0000811	M22- My0000812	M22- My0000813	M22- My0000814
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_IB_202204 29_08_13_SS Triplicate_EUF	SX_IB_202204 29_12_06_SS Primary_EUF	SX_OB_20220 429_16_11_SS _Primary_EUF	SX_OB_20220 429_16_13_SS _Duplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0000811	M22- My0000812	M22- My0000813	M22- My0000814
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	109	111	79	81
Toluene-d8 (surr.)	1	%	116	118	76	80
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0000811	M22- My0000812	M22- My0000813	M22- My0000814
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	72	76	70	68
p-Terphenyl-d14 (surr.)	1	%	74	115	58	66
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	101	138	123	104
Tetrachloro-m-xylene (surr.)	1	%	119	104	102	76

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0000811	M22- My0000812	M22- My0000813	M22- My0000814
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	101	138	123	104
Tetrachloro-m-xylene (surr.)	1	%	119	104	102	76
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	int	31	32	31
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	380	380	340	430
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	9.5	9.2	8.2	8.0
% Moisture						
% Moisture	1	%	35	31	32	32
Heavy Metals						
Arsenic	2	mg/kg	26	30	55	59
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	140	120	160	150
Copper	5	mg/kg	100	84	74	73
Lead	5	mg/kg	6.8	6.0	6.5	7.4
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0000811	M22- My0000812	M22- My0000813	M22- My0000814
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	240	230	240	230
Selenium	2	mg/kg	2.1	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	160	160	160	160
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	78	80	78	78
13C5-PFPeA (surr.)	1	%	85	86	81	84
13C5-PFHxA (surr.)	1	%	73	75	68	71
13C4-PFHpA (surr.)	1	%	70	78	73	66
13C8-PFOA (surr.)	1	%	81	78	72	80
13C5-PFNA (surr.)	1	%	69	70	57	79
13C6-PFDA (surr.)	1	%	57	93	78	74
13C2-PFUnDA (surr.)	1	%	90	95	91	87
13C2-PFDoDA (surr.)	1	%	101	102	98	86
13C2-PFTeDA (surr.)	1	%	81	99	94	99
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	81	87	87	83
D3-N-MeFOSA (surr.)	1	%	110	82	108	82
D5-N-EtFOSA (surr.)	1	%	120	114	106	116
D7-N-MeFOSE (surr.)	1	%	66	78	79	81
D9-N-EtFOSE (surr.)	1	%	93	93	83	90
D5-N-EtFOSAA (surr.)	1	%	119	91	119	115
D3-N-MeFOSAA (surr.)	1	%	143	128	121	123

Client Sample ID			SX_IB_202204 29_08_13_SS Triplicate_EUF	SX_IB_202204 29_12_06_SS Primary_EUF	SX_OB_20220 429_16_11_SS _Primary_EUF	SX_OB_20220 429_16_13_SS _Duplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0000811	M22- My0000812	M22- My0000813	M22- My0000814
Date Sampled			Apr 29, 2022	Apr 29, 2022	Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	66	79	69	69
18O2-PFHxS (surr.)	1	%	63	73	65	75
13C8-PFOS (surr.)	1	%	119	85	63	123
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	56	62	69	52
13C2-6:2 FTSA (surr.)	1	%	56	80	65	62
13C2-8:2 FTSA (surr.)	1	%	69	122	107	71
13C2-10:2 FTSA (surr.)	1	%	125	95	103	140
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 429_19_56_SS _Primary_EUF	SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0000817	M22- My0000818	M22- My0000819
Date Sampled			Apr 29, 2022	Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20

Client Sample ID			SX_OB_20220 429_19_56_SS _Primary_EUF	SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0000817	M22- My0000818	M22- My0000819
Date Sampled			Apr 29, 2022	Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100
Volatile Organics					
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 429_19_56_SS _Primary_EUF	SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0000817	M22- My0000818	M22- My0000819
Date Sampled			Apr 29, 2022	Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit			
Volatile Organics					
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	119	70	73
Toluene-d8 (surr.)	1	%	125	70	75
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	59	73	123
p-Terphenyl-d14 (surr.)	1	%	56	84	77

Client Sample ID			SX_OB_20220 429_19_56_SS _Primary_EUF	SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0000817	M22- My0000818	M22- My0000819
Date Sampled			Apr 29, 2022	Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	67	75	89
Tetrachloro-m-xylene (surr.)	1	%	67	107	105
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	67	75	89
Tetrachloro-m-xylene (surr.)	1	%	67	107	105
Phenols (Halogenated)					
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1

Client Sample ID			SX_OB_20220 429_19_56_SS _Primary_EUF	SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0000817	M22- My0000818	M22- My0000819
Date Sampled			Apr 29, 2022	Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit			
Phenols (non-Halogenated)					
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	int	67	43
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20
Chromium (hexavalent)					
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1
Cyanide (total)					
Cyanide (total)	5	mg/kg	< 5	< 5	< 5
Fluoride (Total)					
Fluoride (Total)	100	mg/kg	440	420	350
pH (1:5 Aqueous extract at 25°C as rec.)					
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.3	12	8.5
% Moisture					
% Moisture	1	%	33	32	30
Heavy Metals					
Arsenic	2	mg/kg	540	34	43
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	130	180	170
Copper	5	mg/kg	99	86	75
Lead	5	mg/kg	8.5	< 5	5.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	5.8	< 5	< 5
Nickel	5	mg/kg	220	260	250
Selenium	2	mg/kg	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10
Zinc	5	mg/kg	160	160	170
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	76	77	78
13C5-PFPeA (surr.)	1	%	82	65	71
13C5-PFHxA (surr.)	1	%	73	65	65

Client Sample ID			SX_OB_20220 429_19_56_SS _Primary_EUF	SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0000817	M22- My0000818	M22- My0000819
Date Sampled			Apr 29, 2022	Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
13C4-PFHpA (surr.)	1	%	69	66	70
13C8-PFOA (surr.)	1	%	76	57	68
13C5-PFNA (surr.)	1	%	69	69	61
13C6-PFDA (surr.)	1	%	95	67	62
13C2-PFUnDA (surr.)	1	%	77	87	106
13C2-PFDoDA (surr.)	1	%	106	94	103
13C2-PFTeDA (surr.)	1	%	86	96	92
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	84	81	94
D3-N-MeFOSA (surr.)	1	%	96	92	90
D5-N-EtFOSA (surr.)	1	%	110	121	115
D7-N-MeFOSE (surr.)	1	%	65	69	87
D9-N-EtFOSE (surr.)	1	%	96	81	87
D5-N-EtFOSAA (surr.)	1	%	63	140	137
D3-N-MeFOSAA (surr.)	1	%	120	107	148
Perfluoroalkyl sulfonic acids (PFSA)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	75	55	64
18O2-PFHxS (surr.)	1	%	67	67	68
13C8-PFOS (surr.)	1	%	118	57	54
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	88	98	92
13C2-6:2 FTSA (surr.)	1	%	60	72	60

Client Sample ID			SX_OB_20220 429_19_56_SS _Primary_EUF	SX_OB_20220 430_00_00_SS _Primary_EUF	SX_OB_20220 430_03_59_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0000817	M22- My0000818	M22- My0000819
Date Sampled			Apr 29, 2022	Apr 30, 2022	Apr 30, 2022
Test/Reference	LOR	Unit			
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
13C2-8:2 FTSA (surr.)	1	%	69	118	85
13C2-10:2 FTSA (surr.)	1	%	129	85	97
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
IWRG 621 WGTP Suite			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	May 02, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	May 02, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	May 02, 2022	14 Days
Volatile Organics - Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS	Melbourne	May 02, 2022	7 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	May 02, 2022	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 02, 2022	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	May 02, 2022	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	May 02, 2022	28 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 02, 2022	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 02, 2022	14 Days
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection	Melbourne	May 02, 2022	28 Days
Cyanide (total) - Method: LTM-INO-4020 Total Free WAD Cyanide by CFA	Melbourne	May 03, 2022	14 Days
Fluoride (Total) - Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE	Melbourne	May 03, 2022	28 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	May 02, 2022	7 Days
Metals IWRG 621 : Metals M12 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	May 02, 2022	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	May 02, 2022	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 02, 2022	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_IB_20220429_08_13_SS_Triplicate_EU F	Apr 29, 2022	8:13AM	Soil	M22-My0000811		X	X	X
2	SX_IB_20220429_12_06_SS_Primary_EUF	Apr 29, 2022	12:06PM	Soil	M22-My0000812		X	X	X
3	SX_OB_20220429_16_11_S_S_Primary_EU F	Apr 29, 2022	4:11PM	Soil	M22-My0000813		X	X	X
4	SX_OB_20220	Apr 29, 2022	4:13PM	Soil	M22-		X	X	X

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063
Project Name: 20220430060211-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 884110
Phone: 08 8338 1009
Fax:

Received: May 2, 2022 8:55 AM
Due: May 9, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	429_16_13_S S_Duplicate_EUF				My0000814				
5	SX_OB_20220 429_16_30_S R_Rinsate_EUF	Apr 29, 2022	4:30PM	Water	M22- My0000815			X	
6	SX_OB_20220 429_16_31_S B_Blank_EUF	Apr 29, 2022	4:31PM	Water	M22- My0000816			X	
7	SX_OB_20220 429_19_56_S S_Primary_EUF	Apr 29, 2022	7:56PM	Soil	M22- My0000817		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
8	SX_OB_20220430_00_00_S_S_Primary_EU_F	Apr 30, 2022	12:00AM	Soil	M22-My0000818		X	X	X
9	SX_OB_20220430_03_59_S_S_Primary_EU_F	Apr 30, 2022	3:59AM	Soil	M22-My0000819		X	X	X
10	SX_IB_20220429_08_13_SS_Triplicate_EU_F	Apr 29, 2022	8:13AM	AUS Leachate - pH 5.0	M22-My0000820	X		X	
11	SX_IB_20220429_12_06_SS	Apr 29, 2022	12:06PM	AUS Leachate - pH 5.0	M22-My0000821	X		X	

Company Name: Agon Environmental Pty Ltd - VIC
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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF								
12	SX_OB_20220429_16_11_S_S_Primary_EUF	Apr 29, 2022	4:11PM	AUS Leachate - pH 5.0	M22-My0000822	X		X	
13	SX_OB_20220429_16_13_S_S_Duplicate_EUF	Apr 29, 2022	4:13PM	AUS Leachate - pH 5.0	M22-My0000823	X		X	
14	SX_OB_20220429_19_56_S_S_Primary_EUF	Apr 29, 2022	7:56PM	AUS Leachate - pH 5.0	M22-My0000824	X		X	
15	SX_OB_20220	Apr 30, 2022	12:00AM	AUS Leachate	M22-	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
15	SX_OB_20220430_00_00_S_S_Primary_EU_F	Apr 30, 2022	12:00AM	AUS Leachate - pH 5.0	M22-My0000825				
16	SX_OB_20220430_03_59_S_S_Primary_EU_F	Apr 30, 2022	3:59AM	AUS Leachate - pH 5.0	M22-My0000826	X		X	
17	SX_IB_20220429_08_13_SS_Triplicate_EU_F	Apr 29, 2022	8:13AM	AUS Leachate - Reagent Water	M22-My0000827	X		X	
18	SX_IB_20220429_12_06_SS	Apr 29, 2022	12:06PM	AUS Leachate - Reagent	M22-My0000828	X		X	

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Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF			Water					
19	SX_OB_20220429_16_11_S_S_Primary_EUF	Apr 29, 2022	4:11PM	AUS Leachate - Reagent Water	M22-My0000829	X		X	
20	SX_OB_20220429_16_13_S_S_Duplicate_EUF	Apr 29, 2022	4:13PM	AUS Leachate - Reagent Water	M22-My0000830	X		X	
21	SX_OB_20220429_19_56_S_S_Primary_EUF	Apr 29, 2022	7:56PM	AUS Leachate - Reagent Water	M22-My0000831	X		X	
22	SX_OB_20220	Apr 30, 2022	12:00AM	AUS Leachate	M22-	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
22	SX_OB_20220430_00_00_S_S_Primary_EU_F	Apr 30, 2022	12:00AM	AUS Leachate - Reagent Water	M22-My0000832				
23	SX_OB_20220430_03_59_S_S_Primary_EU_F	Apr 30, 2022	3:59AM	AUS Leachate - Reagent Water	M22-My0000833	X		X	
Test Counts						14	7	23	7

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	µg/L: micrograms per litre
ppm: parts per million	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPaA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1			1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1			1	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Cyanide (total)	mg/kg	< 5			5	Pass	
Fluoride (Total)	mg/kg	< 100			100	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 2			2	Pass	
Tin	mg/kg	< 10			10	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/kg	< 5		5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5		5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5		5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5		5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5		5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5		5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5		5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5		5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5		5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5		5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5		5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5		5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5		5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5		5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5		5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10		10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10		10	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5		5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5		5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5		5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5		5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5		5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5		5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5		5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5		5	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10		10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5		5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons						
TRH C6-C9	%	102		70-130	Pass	
TRH C10-C14	%	104		70-130	Pass	
Naphthalene	%	71		70-130	Pass	
TRH C6-C10	%	101		70-130	Pass	
TRH >C10-C16	%	107		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1.1-Dichloroethene	%	74		70-130	Pass	
1.1.1-Trichloroethane	%	78		70-130	Pass	
1.2-Dichlorobenzene	%	88		70-130	Pass	
1.2-Dichloroethane	%	74		70-130	Pass	
Benzene	%	87		70-130	Pass	
Ethylbenzene	%	100		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	99			70-130	Pass	
Toluene	%	88			70-130	Pass	
Trichloroethene	%	78			70-130	Pass	
Xylenes - Total*	%	100			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	121			70-130	Pass	
Anthracene	%	105			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	122			70-130	Pass	
Benzo(b&i)fluoranthene	%	102			70-130	Pass	
Benzo(g,h,i)perylene	%	102			70-130	Pass	
Benzo(k)fluoranthene	%	126			70-130	Pass	
Chrysene	%	106			70-130	Pass	
Dibenz(a,h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	88			70-130	Pass	
Fluorene	%	107			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	102			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	81			70-130	Pass	
Pyrene	%	75			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	102			70-130	Pass	
4,4'-DDD	%	123			70-130	Pass	
4,4'-DDE	%	106			70-130	Pass	
4,4'-DDT	%	91			70-130	Pass	
a-HCH	%	87			70-130	Pass	
Aldrin	%	101			70-130	Pass	
b-HCH	%	109			70-130	Pass	
d-HCH	%	104			70-130	Pass	
Dieldrin	%	102			70-130	Pass	
Endosulfan I	%	106			70-130	Pass	
Endosulfan II	%	94			70-130	Pass	
Endosulfan sulphate	%	98			70-130	Pass	
Endrin	%	99			70-130	Pass	
Endrin aldehyde	%	111			70-130	Pass	
Endrin ketone	%	94			70-130	Pass	
g-HCH (Lindane)	%	87			70-130	Pass	
Heptachlor	%	100			70-130	Pass	
Heptachlor epoxide	%	102			70-130	Pass	
Hexachlorobenzene	%	109			70-130	Pass	
Methoxychlor	%	90			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	104			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	92			25-140	Pass	
2,4-Dichlorophenol	%	100			25-140	Pass	
2,4,5-Trichlorophenol	%	78			25-140	Pass	
2,4,6-Trichlorophenol	%	99			25-140	Pass	
2,6-Dichlorophenol	%	60			25-140	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
4-Chloro-3-methylphenol	%	84		25-140	Pass	
Pentachlorophenol	%	61		25-140	Pass	
Tetrachlorophenols - Total	%	34		25-140	Pass	
LCS - % Recovery						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	%	34		25-140	Pass	
2-Methyl-4,6-dinitrophenol	%	31		25-140	Pass	
2-Nitrophenol	%	100		25-140	Pass	
2,4-Dimethylphenol	%	88		25-140	Pass	
2,4-Dinitrophenol	%	53		25-140	Pass	
2-Methylphenol (o-Cresol)	%	80		25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	106		25-140	Pass	
4-Nitrophenol	%	45		25-140	Pass	
Dinoseb	%	55		25-140	Pass	
Phenol	%	79		25-140	Pass	
LCS - % Recovery						
Chromium (hexavalent)	%	92		70-130	Pass	
Cyanide (total)	%	116		70-130	Pass	
Fluoride (Total)	%	103		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	98		80-120	Pass	
Cadmium	%	97		80-120	Pass	
Chromium	%	111		80-120	Pass	
Copper	%	102		80-120	Pass	
Lead	%	111		80-120	Pass	
Mercury	%	99		80-120	Pass	
Molybdenum	%	107		80-120	Pass	
Nickel	%	99		80-120	Pass	
Selenium	%	96		80-120	Pass	
Silver	%	100		80-120	Pass	
Tin	%	109		80-120	Pass	
Zinc	%	97		80-120	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	120		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	92		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	91		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	93		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	102		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	103		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	92		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	105		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	109		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	98		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	101		50-150	Pass	
LCS - % Recovery						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	%	95		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	137		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	89		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	101		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	97		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	107		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	83			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFASs)								
Perfluorobutanesulfonic acid (PFBS)	%	85			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	106			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	111			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	96			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	94			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	117			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	89			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	117			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	98			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	101			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	94			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	86			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C10-C14	M22-Ap0055328	NCP	%	110		70-130	Pass	
TRH >C10-C16	M22-Ap0055328	NCP	%	113		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	M22-Ap0047241	NCP	%	111		70-130	Pass	
Acenaphthylene	M22-Ap0047241	NCP	%	117		70-130	Pass	
Anthracene	M22-Ap0047241	NCP	%	94		70-130	Pass	
Benz(a)anthracene	M22-Ap0047241	NCP	%	85		70-130	Pass	
Benzo(a)pyrene	M22-Ap0047241	NCP	%	95		70-130	Pass	
Benzo(b&i)fluoranthene	M22-Ap0047241	NCP	%	82		70-130	Pass	
Benzo(g,h,i)perylene	M22-Ap0047241	NCP	%	96		70-130	Pass	
Benzo(k)fluoranthene	M22-Ap0047241	NCP	%	82		70-130	Pass	
Chrysene	M22-Ap0047241	NCP	%	86		70-130	Pass	
Dibenz(a,h)anthracene	M22-Ap0047241	NCP	%	95		70-130	Pass	
Fluoranthene	M22-Ap0047241	NCP	%	90		70-130	Pass	
Fluorene	M22-Ap0047241	NCP	%	103		70-130	Pass	
Indeno(1,2,3-cd)pyrene	M22-Ap0047241	NCP	%	108		70-130	Pass	
Naphthalene	M22-Ap0047241	NCP	%	110		70-130	Pass	
Phenanthrene	M22-Ap0047241	NCP	%	77		70-130	Pass	
Pyrene	M22-Ap0047241	NCP	%	89		70-130	Pass	
Spike - % Recovery								
Phenols (Halogenated)				Result 1				
2-Chlorophenol	M22-Ap0047241	NCP	%	82		30-130	Pass	
2,4-Dichlorophenol	M22-Ap0047241	NCP	%	111		30-130	Pass	
2,4,5-Trichlorophenol	M22-Ap0047241	NCP	%	51		30-130	Pass	
2,4,6-Trichlorophenol	M22-Ap0047241	NCP	%	53		30-130	Pass	
2,6-Dichlorophenol	M22-Ap0047241	NCP	%	63		30-130	Pass	
4-Chloro-3-methylphenol	M22-Ap0047241	NCP	%	95		30-130	Pass	
Pentachlorophenol	M22-Ap0047241	NCP	%	103		30-130	Pass	
Tetrachlorophenols - Total	M22-Ap0047241	NCP	%	40		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Cyclohexyl-4,6-dinitrophenol	M22-Ap0047241	NCP	%	42		30-130	Pass	
2-Methyl-4,6-dinitrophenol	M22-Ap0047241	NCP	%	100		30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
2-Nitrophenol	M22-Ap0047241	NCP	%	99		30-130	Pass	
2,4-Dimethylphenol	M22-Ap0047241	NCP	%	87		30-130	Pass	
2-Methylphenol (o-Cresol)	M22-Ap0047241	NCP	%	83		30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Ap0047241	NCP	%	107		30-130	Pass	
4-Nitrophenol	M22-Ap0047241	NCP	%	50		30-130	Pass	
Dinoseb	M22-Ap0047241	NCP	%	47		30-130	Pass	
Phenol	M22-Ap0047241	NCP	%	89		30-130	Pass	
Spike - % Recovery								
				Result 1				
Cyanide (total)	M22-Ap0054479	NCP	%	127		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	M22-My0001690	NCP	%	97		75-125	Pass	
Cadmium	M22-My0001690	NCP	%	91		75-125	Pass	
Chromium	M22-My0001692	NCP	%	102		75-125	Pass	
Copper	M22-My0001690	NCP	%	95		75-125	Pass	
Lead	M22-My0001690	NCP	%	103		75-125	Pass	
Mercury	M22-My0001690	NCP	%	114		75-125	Pass	
Molybdenum	M22-My0001690	NCP	%	123		75-125	Pass	
Nickel	M22-My0001690	NCP	%	80		75-125	Pass	
Selenium	M22-My0001690	NCP	%	97		75-125	Pass	
Silver	M22-My0001690	NCP	%	92		75-125	Pass	
Tin	M22-My0001690	NCP	%	127		75-125	Fail	Q08
Zinc	M22-My0001690	NCP	%	74		75-125	Fail	Q08
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	M22-My0000812	CP	%	91		70-130	Pass	
Naphthalene	M22-My0000812	CP	%	76		70-130	Pass	
TRH C6-C10	M22-My0000812	CP	%	90		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1,1-Dichloroethene	M22-My0000812	CP	%	75		70-130	Pass	
1,1,1-Trichloroethane	M22-My0000812	CP	%	85		70-130	Pass	
1,2-Dichlorobenzene	M22-My0000812	CP	%	76		70-130	Pass	
1,2-Dichloroethane	M22-My0000812	CP	%	85		70-130	Pass	
Benzene	M22-My0000812	CP	%	78		70-130	Pass	
Ethylbenzene	M22-My0000812	CP	%	90		70-130	Pass	
m&p-Xylenes	M22-My0000812	CP	%	90		70-130	Pass	
o-Xylene	M22-My0000812	CP	%	91		70-130	Pass	
Toluene	M22-My0000812	CP	%	81		70-130	Pass	
Trichloroethene	M22-My0000812	CP	%	82		70-130	Pass	
Xylenes - Total*	M22-My0000812	CP	%	90		70-130	Pass	
Spike - % Recovery								
				Result 1				
Fluoride (Total)	M22-My0000812	CP	%	77		70-130	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	M22-My0000813	CP	%	92		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0000813	CP	%	88		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0000813	CP	%	95		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0000813	CP	%	93		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0000813	CP	%	102		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-My0000813	CP	%	118		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0000813	CP	%	71		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroundecanoic acid (PFUnDA)	M22-My0000813	CP	%	98		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0000813	CP	%	97		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-My0000813	CP	%	99		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-My0000813	CP	%	103		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				
Perfluorooctane sulfonamide (FOSA)	M22-My0000813	CP	%	94		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0000813	CP	%	91		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0000813	CP	%	79		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0000813	CP	%	83		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0000813	CP	%	100		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0000813	CP	%	65		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0000813	CP	%	117		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1				
Perfluorobutanesulfonic acid (PFBS)	M22-My0000813	CP	%	86		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-My0000813	CP	%	138		50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-My0000813	CP	%	130		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-My0000813	CP	%	108		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-My0000813	CP	%	112		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0000813	CP	%	58		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-My0000813	CP	%	115		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-My0000813	CP	%	126		50-150	Pass	
Spike - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0000813	CP	%	104		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0000813	CP	%	99		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0000813	CP	%	88		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0000813	CP	%	82		50-150	Pass	
Spike - % Recovery								
				Result 1				
Chromium (hexavalent)	M22-My0000814	CP	%	69		70-130	Fail	Q08
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	M22-My0000817	CP	%	98		70-130	Pass	
4,4'-DDD	M22-My0000817	CP	%	85		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDE	M22-My0000817	CP	%	117			70-130	Pass	
4.4'-DDT	M22-My0000817	CP	%	90			70-130	Pass	
a-HCH	M22-My0000817	CP	%	105			70-130	Pass	
Aldrin	M22-My0000817	CP	%	103			70-130	Pass	
b-HCH	M22-My0000817	CP	%	123			70-130	Pass	
d-HCH	M22-My0000817	CP	%	120			70-130	Pass	
Dieldrin	M22-My0000817	CP	%	91			70-130	Pass	
Endosulfan I	M22-My0000817	CP	%	106			70-130	Pass	
Endosulfan II	M22-My0000817	CP	%	109			70-130	Pass	
Endosulfan sulphate	M22-My0000817	CP	%	100			70-130	Pass	
Endrin	M22-My0000817	CP	%	82			70-130	Pass	
Endrin aldehyde	M22-My0000817	CP	%	123			70-130	Pass	
Endrin ketone	M22-My0000817	CP	%	91			70-130	Pass	
g-HCH (Lindane)	M22-My0000817	CP	%	102			70-130	Pass	
Heptachlor	M22-My0000817	CP	%	91			70-130	Pass	
Heptachlor epoxide	M22-My0000817	CP	%	88			70-130	Pass	
Hexachlorobenzene	M22-My0000817	CP	%	96			70-130	Pass	
Methoxychlor	M22-My0000817	CP	%	85			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M22-Ap0053093	NCP	%	110			70-130	Pass	
Aroclor-1260	M22-Ap0053093	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2.4-Dinitrophenol	M22-Ap0053004	NCP	%	51			30-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Ap0060256	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Ap0060256	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
2-Propanone (Acetone)	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	M22-Ap0060256	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,2-Dichloroethene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,3-Dichloropropene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	M22-Ap0060256	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-Ap0060256	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-Ap0060256	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-Ap0060256	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1,2-Dichloroethene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,3-Dichloropropene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-Ap0060256	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-Ap0060256	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Cyanide (total)	M22-My0000811	CP	mg/kg	< 5	< 5	<1	30%	Pass
Fluoride (Total)	M22-My0000811	CP	mg/kg	380	480	23	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	M22-My0000725	NCP	pH Units	7.0	6.9	pass	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M22-My0001690	NCP	mg/kg	16	16	2.0	30%	Pass
Cadmium	M22-My0001690	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M22-My0001690	NCP	mg/kg	120	120	2.0	30%	Pass
Copper	M22-My0001690	NCP	mg/kg	41	43	3.0	30%	Pass
Lead	M22-My0001690	NCP	mg/kg	40	41	4.0	30%	Pass
Mercury	M22-My0001690	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M22-My0001690	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M22-My0001690	NCP	mg/kg	88	90	3.0	30%	Pass
Selenium	M22-My0001690	NCP	mg/kg	3.3	3.4	3.0	30%	Pass
Silver	M22-My0001690	NCP	mg/kg	< 2	< 2	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Tin	M22-My0001690	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M22-My0001690	NCP	mg/kg	64	65	2.0	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0058514	NCP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0058514	NCP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0058514	NCP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0058514	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	M22-My0000812	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M22-My0000812	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	M22-My0000812	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	M22-My0000812	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M22-My0000812	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	M22-My0000812	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-My0000812	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	M22-My0000817	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M22-My0000817	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	M22-My0000817	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	M22-My0000817	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M22-My0000817	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	M22-My0000817	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&i)fluoranthene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M22-My0000817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4.4'-DDD	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDE	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDT	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
b-HCH	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M22-My0000817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M22-My0000817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	M22-My0000817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	M22-My0000817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	M22-My0000817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	M22-My0000817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	M22-My0000817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M22-My0000817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M22-My0000817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M22-My0000817	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M22-My0000817	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M22-My0000817	CP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M22-My0000817	CP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M22-My0000817	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M22-My0000817	CP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M22-My0000817	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M22-My0000817	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M22-My0000817	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M22-My0000817	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M22-My0000817	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M22-My0000817	CP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M22-My0000817	CP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M22-My0000817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-My0000817	CP	mg/kg	< 1	< 1	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	M22-My0000818	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M22-My0000818	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	M22-My0000818	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	M22-My0000818	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M22-My0000818	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	M22-My0000818	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M22-My0000818	CP	%	32	30	5.0	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

Michael Cassidy	Analytical Services Manager
Scott Beddoes	Senior Analyst (NSW)
Joseph Edouard	Senior Analyst (VIC)
Edward Lee	Senior Analyst (VIC)
Mary Makarios	Senior Analyst (NSW)
Caitlin Breeze	Senior Analyst (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Agon Environmental Pty Ltd - VIC
3/224 Glen Osmond Road
Fullarton
SA 5063



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition
Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection, proficiency testing scheme providers and
reference materials producers reports and certificates.

Attention: **David Lawson**

Report **884110-W**
Project name **20220430060211-Eurofin-12**
Project ID **JC0927**
Received Date **May 02, 2022**

Client Sample ID			SX_OB_20220 429_16_30_SR _Rinsate_EUF	SX_OB_20220 429_16_31_SB _Blank_EUF
Sample Matrix			Water	Water
Eurofins Sample No.			M22- My0000815	M22- My0000816
Date Sampled			Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	75	78
13C5-PFPeA (surr.)	1	%	95	94
13C5-PFHxA (surr.)	1	%	87	89
13C4-PFHpA (surr.)	1	%	75	85
13C8-PFOA (surr.)	1	%	78	83
13C5-PFNA (surr.)	1	%	56	71
13C6-PFDA (surr.)	1	%	58	62
13C2-PFUnDA (surr.)	1	%	41	53
13C2-PFDoDA (surr.)	1	%	36	52
13C2-PFTeDA (surr.)	1	%	61	83
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	61	63

Client Sample ID			SX_OB_20220 429_16_30_SR _Rinsate_EUF	SX_OB_20220 429_16_31_SB _Blank_EUF
Sample Matrix			Water	Water
Eurofins Sample No.			M22- My0000815	M22- My0000816
Date Sampled			Apr 29, 2022	Apr 29, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
D3-N-MeFOSA (surr.)	1	%	80	39
D5-N-EtFOSA (surr.)	1	%	85	29
D7-N-MeFOSE (surr.)	1	%	53	63
D9-N-EtFOSE (surr.)	1	%	87	86
D5-N-EtFOSAA (surr.)	1	%	52	71
D3-N-MeFOSAA (surr.)	1	%	43	55
Perfluoroalkyl sulfonic acids (PFASs)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	129	131
18O2-PFHxS (surr.)	1	%	85	94
13C8-PFOS (surr.)	1	%	57	73
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	59	59
13C2-6:2 FTSA (surr.)	1	%	56	69
13C2-8:2 FTSA (surr.)	1	%	57	69
13C2-10:2 FTSA (surr.)	1	%	64	92
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 02, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 02, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 02, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 02, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 02, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_IB_20220429_08_13_SS_Triplicate_EU_F	Apr 29, 2022	8:13AM	Soil	M22-My0000811		X	X	X
2	SX_IB_20220429_12_06_SS_Primary_EUF	Apr 29, 2022	12:06PM	Soil	M22-My0000812		X	X	X
3	SX_OB_20220429_16_11_SS_Primary_EU_F	Apr 29, 2022	4:11PM	Soil	M22-My0000813		X	X	X
4	SX_OB_20220	Apr 29, 2022	4:13PM	Soil	M22-		X	X	X

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063
Project Name: 20220430060211-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 884110
Phone: 08 8338 1009
Fax:

Received: May 2, 2022 8:55 AM
Due: May 9, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	429_16_13_S S_Duplicate_EUF				My0000814				
5	SX_OB_20220 429_16_30_S R_Rinsate_EUF	Apr 29, 2022	4:30PM	Water	M22- My0000815			X	
6	SX_OB_20220 429_16_31_S B_Blank_EUF	Apr 29, 2022	4:31PM	Water	M22- My0000816			X	
7	SX_OB_20220 429_19_56_S S_Primary_EUF	Apr 29, 2022	7:56PM	Soil	M22- My0000817		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
8	SX_OB_20220430_00_00_S_S_Primary_EU_F	Apr 30, 2022	12:00AM	Soil	M22-My0000818		X	X	X
9	SX_OB_20220430_03_59_S_S_Primary_EU_F	Apr 30, 2022	3:59AM	Soil	M22-My0000819		X	X	X
10	SX_IB_20220429_08_13_SS_Triplicate_EU_F	Apr 29, 2022	8:13AM	AUS Leachate - pH 5.0	M22-My0000820	X		X	
11	SX_IB_20220429_12_06_SS	Apr 29, 2022	12:06PM	AUS Leachate - pH 5.0	M22-My0000821	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF								
12	SX_OB_20220429_16_11_S_S_Primary_EUF	Apr 29, 2022	4:11PM	AUS Leachate - pH 5.0	M22-My0000822	X		X	
13	SX_OB_20220429_16_13_S_S_Duplicate_EUF	Apr 29, 2022	4:13PM	AUS Leachate - pH 5.0	M22-My0000823	X		X	
14	SX_OB_20220429_19_56_S_S_Primary_EUF	Apr 29, 2022	7:56PM	AUS Leachate - pH 5.0	M22-My0000824	X		X	
15	SX_OB_20220	Apr 30, 2022	12:00AM	AUS Leachate	M22-	X		X	

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063
Project Name: 20220430060211-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 884110
Phone: 08 8338 1009
Fax:

Received: May 2, 2022 8:55 AM
Due: May 9, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
15	SX_OB_20220430_00_00_S_S_Primary_EU_F	Apr 30, 2022	12:00AM	AUS Leachate - pH 5.0	M22-My0000825				
16	SX_OB_20220430_03_59_S_S_Primary_EU_F	Apr 30, 2022	3:59AM	AUS Leachate - pH 5.0	M22-My0000826	X		X	
17	SX_IB_20220429_08_13_SS_Triplicate_EU_F	Apr 29, 2022	8:13AM	AUS Leachate - Reagent Water	M22-My0000827	X		X	
18	SX_IB_20220429_12_06_SS	Apr 29, 2022	12:06PM	AUS Leachate - Reagent	M22-My0000828	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Primary_EUF			Water					
19	SX_OB_20220429_16_11_S_S_Primary_EUF	Apr 29, 2022	4:11PM	AUS Leachate - Reagent Water	M22-My0000829	X		X	
20	SX_OB_20220429_16_13_S_S_Duplicate_EUF	Apr 29, 2022	4:13PM	AUS Leachate - Reagent Water	M22-My0000830	X		X	
21	SX_OB_20220429_19_56_S_S_Primary_EUF	Apr 29, 2022	7:56PM	AUS Leachate - Reagent Water	M22-My0000831	X		X	
22	SX_OB_20220	Apr 30, 2022	12:00AM	AUS Leachate	M22-	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 2, 2022 8:55 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	884110	Due:	May 9, 2022
Project Name:	20220430060211-Eurofin-12	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
22	SX_OB_20220430_00_00_S_S_Primary_EU_F	Apr 30, 2022	12:00AM	AUS Leachate - Reagent Water	M22-My0000832				
23	SX_OB_20220430_03_59_S_S_Primary_EU_F	Apr 30, 2022	3:59AM	AUS Leachate - Reagent Water	M22-My0000833	X		X	
Test Counts						14	7	23	7

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	µg/L: micrograms per litre
ppm: parts per million	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05		0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	100		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	136		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	94		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	84		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	105		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	88		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	105		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	95		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	92		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	108		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	123		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	114			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	144			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	83			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	83			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	81			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	100			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	130			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)								
Perfluorobutanesulfonic acid (PFBS)	%	89			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	59			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	75			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	104			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	96			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	85			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	88			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	58			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	112			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	117			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	93			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	126			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	M22-Ap0049645	NCP	%	122		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ap0049645	NCP	%	133		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ap0049645	NCP	%	73		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ap0049645	NCP	%	79		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ap0049645	NCP	%	89		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Ap0049645	NCP	%	103		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ap0049645	NCP	%	81		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0049645	NCP	%	102		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ap0049645	NCP	%	87		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0049645	NCP	%	126		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0049645	NCP	%	113		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	M22-Ap0049645	NCP	%	100		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0049645	NCP	%	121		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0049645	NCP	%	96		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0049645	NCP	%	100		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0049645	NCP	%	90		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0049645	NCP	%	96			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0049645	NCP	%	51			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0049645	NCP	%	84			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ap0049645	NCP	%	64			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0049645	NCP	%	77			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0049645	NCP	%	86			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0044637	NCP	%	74			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0049645	NCP	%	88			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0044637	NCP	%	55			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0049645	NCP	%	59			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0049645	NCP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0049645	NCP	%	123			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0049645	NCP	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0049645	NCP	%	99			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Ap0054055	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ap0054055	NCP	ug/L	0.02	0.02	4.0	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ap0054055	NCP	ug/L	0.02	0.02	4.0	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ap0054055	NCP	ug/L	0.01	0.01	2.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ap0054055	NCP	ug/L	0.03	0.03	7.0	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTEDA)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0054055	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0054055	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0054055	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0054055	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0054055	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0054055	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0054055	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0054055	NCP	ug/L	0.01	0.01	5.0	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0054055	NCP	ug/L	0.03	0.04	1.0	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0054055	NCP	ug/L	0.03	0.02	19	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0054055	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0054055	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Michael Cassidy	Analytical Services Manager
Joseph Edouard	Senior Analyst (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

CHAIN OF CUSTODY DOCUMENTATION

CLIENT: Agon Environmental	SAMPLER: Brandon + TB - Agon
ADDRESS/ OFFICE: Melbourne	LR + HK - EP Risk
PROJECT MANAGER (PM): Craig Timbur	MOBILE #: +61 400 826 907 (Craig Timbur)
PROJECT ID: JQ2927	EMAIL REPORT TO: Labreports.TS1@agonenviro.com.au; agonenviro.mel@essd.com.au
SITE: 2022042001208-ALS-51	LABORATORY: inonhenhlabresults1@xcell.com.au
RESULTS REQUIRED (Date): 3 days	QUOTE NO.: WE-150-18 WGTIP
P.O. NO.:	EMAIL INVOICE TO: (if different to report)
LABORATORY: TST1@agonenviro.com.au; agonenviro.mel@essd.com.au	ANALYSIS REQUIRED (including SUITES from - suite codes must be listed to attract site price)
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:	

ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	CONTAINER INFORMATION		ANALYSIS REQUIRED				Notes	
						Total bottles	Spoil Sample Prep	P16 plus Cr	PFAS 28 Extended suite	ASLP PFAS - Extended Suite (Lab to determine pH)	DI Leachate PFAS - Extended Suite		
24	1	SX_OB_20220423_08_10_SS_Primary_ALS	23/04/2022	08:10	Bucket	1	X	X	X	X			
	2	SX_OB_20220423_08_12_SS_Duplicate_ALS	23/04/2022	08:12	Bucket	1	X	X	X	X			
	3	SX_OB_20220423_08_08_SS_Blank_ALS	23/04/2022	08:36	Bottle	1							
	4	SX_OB_20220423_08_30_SS_Primary_ALS	23/04/2022	08:36	Bottle	1							
	5	SX_OB_20220423_12_11_SS_Primary_ALS	23/04/2022	12:11	Bucket	1	X	X	X	X			
	6	SX_OB_20220423_16_03_SS_Triplicate_ALS	23/04/2022	16:03	Bucket	1	X	X	X	X			
	7	SX_OB_20220423_16_04_SS_Primary_ALS	23/04/2022	16:04	Bucket	1	X	X	X	X			
	8	SX_OB_20220423_20_07_SS_Primary_ALS	23/04/2022	20:07	Bucket	1	X	X	X	X			
	9	SX_OB_20220424_00_14_SS_Primary_ALS	24/04/2022	00:14	Bucket	1	X	X	X	X			
	10	SX_OB_20220424_04_08_SS_Primary_ALS	24/04/2022	04:08	Bucket	1	X	X	X	X			
	11	SX_OB_20220424_08_05_SS_Primary_ALS	24/04/2022	08:06	Bucket	1	X	X	X	X			
	12	SX_OB_20220424_08_08_SS_Duplicate_ALS	24/04/2022	08:07	Bucket	1	X	X	X	X			
	13	SX_OB_20220424_12_03_SS_Primary_ALS	24/04/2022	12:04	Bucket	1	X	X	X	X			
	14	SX_OB_20220424_16_06_SS_Primary_ALS	24/04/2022	16:06	Bucket	1	X	X	X	X			
	15	SX_OB_20220424_16_48_SS_Triplicate_ALS	24/04/2022	16:50	Bucket	1	X	X	X	X			
	16	SX_OB_20220424_19_54_SS_Primary_ALS	24/04/2022	19:54	Bucket	1	X	X	X	X			
	17	SX_OB_20220424_23_48_SS_Primary_ALS	24/04/2022	23:48	Bucket	1	X	X	X	X			
	18	SX_OB_20220424_23_55_SS_Primary_ALS	24/04/2022	23:55	Bucket	1	X	X	X	X			
	19	SX_OB_20220424_04_16_SS_Duplicate_ALS	25/04/2022	4:16	Bucket	1	X	X	X	X			
	20	SX_OB_20220425_04_18_SS_Duplicate_ALS	25/04/2022	4:18	Bucket	1	X	X	X	X			
	21	SX_OB_20220425_07_59_SS_Primary_ALS	25/04/2022	7:56	Bucket	1	X	X	X	X			
	22	SX_OB_20220425_07_57_SS_Duplicate_ALS	25/04/2022	7:57	Bucket	1	X	X	X	X			
	23	SX_OB_20220425_11_48_SS_Primary_ALS	25/04/2022	11:48	Bucket	1	X	X	X	X			
	24	SX_OB_20220425_15_50_SS_Primary_ALS	25/04/2022	15:50	Bucket	1	X	X	X	X			
	25	SX_OB_20220425_15_56_SS_Triplicate_ALS	25/04/2022	15:58	Bucket	1	X	X	X	X			
	26	SX_OB_20220425_19_40_SS_Primary_ALS	26/04/2022	19:49	Bucket	1	X	X	X	X			
	27	SX_OB_20220425_00_02_SS_Primary_ALS	26/04/2022	0:02	Bucket	1	X	X	X	X			
	28	SX_OB_20220426_03_47_SS_Primary_ALS	26/04/2022	3:47	Bucket	1	X	X	X	X			

REINQUISHED BY:	NAME: Shane Kismbern	DATE: 26/4/22	METHOD OR SHIPMENT:
OR:	Name: ALS	Date: 12/3/22	Cont. Note No.:
Name:	Name:	Date:	Transport Co.:
OR:	Name:	Date:	

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; V = VOA/VAH/HC Preserved; VS = VOA/VAH Substrate Preserved; SS = Sulphur Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation bottle; SP = Sulphur Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Stable Bottle; ASS = Plastic Bead for Acid Substrate Solids; B = Unpreserved Bag.

URGENT

Received: 26/4/22 12:35
 Carrier: Courier
 C/note:
 Temp: 16.7 °C Seal: Y/N
 Lec / Tech: NA

Environmental Division
 Melbourne
 Work Order Reference
EM2207398



Telephone: + 61-3-8549 9600

From: Josh Alexander
Sent: Tuesday, 26 April 2022 10:46 AM
To: COC Melbourne
Subject: AGONENV - JC0927 (WGTP) - revised COC (3-DAY TAT)
 20220426041206-ALS-21 Solid_00.xlsx

Attachments:

Importance: High

Follow Up Flag: Follow up
 Flagged

Flag Status: Flagged

Categories: Agon - WGTP

Hi again Ranil,

See revised COC for today's WGTP tunnel spoil. **3-DAY TAT.**

Regards,



right solutions.
right partner.

Joshua Alexander
Project Manager - Environmental
Springvale, Victoria

D: +61 3 8549 9610

M: 0436 924 166

josh.alexander@alsglobal.com

2-4 Westall Road, Springvale VIC 3171

alsglobal.com



From: David Lawson <David.Lawson@agonenviro.com.au>
Sent: Tuesday, 26 April 2022 10:36 AM
To: Josh Alexander <josh.alexander@alsglobal.com>
Subject: RE: [EXTERNAL] - COCS 26/04/2022

Please find a revised COC.

3-Day TAT

David Lawson
Environmental Scientist

Agon Environmental

+61 4 9041 1004

David.Lawson@agonenviro.com.au

From: David Lawson
Sent: Tuesday, 26 April 2022 10:35 AM
To: Josh Alexander <josh.alexander@ALSglobal.com>
Subject: RE: [EXTERNAL] - COCS 26/04/2022

Thanks for picking that up.
I will send a revised COC.
This batch will be 3 days.
Thanks,

David Lawson
Environmental Scientist
Agon Environmental
+61 4 9041 1004
David.Lawson@agonenviro.com.au

Thanks Dave. Just wanted to confirm, last week we were discussing this batch being potentially 3-dat
TAT. Standard 5-day as indicated on COC is all good?

Cheers,



right solutions.
right partner.

Joshua Alexander
Project Manager - Environmental
Springvale, Victoria
D: +61 3 8549 9610
M: 0436 924 166
josh.alexander@alsglobal.com

2-4 Westall Road, Springvale VIC 3171
alsglobal.com



From: David Lawson <David.Lawson@agonenviro.com.au>
Sent: Tuesday, 26 April 2022 10:27 AM
To: Josh Alexander <josh.alexander@ALSglobal.com>
CC: Bronwyn Sheen <bronwyn.sheen@alsglobal.com>; ALS WGTG <ALS.WGTG@ALSglobal.com>
Subject: [EXTERNAL] - COCS 26/04/2022

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

Hi Josh,

Please find COCs attached for samples being delivered to the labs today.

Regards,



David Lawson
Environmental Scientist

Agon Environmental
ADELAIDE | CANBERRA | DARWIN | MELBOURNE
H76, 63-85 Turner St, Port Melbourne VIC 3207

+61 3 8566 1567
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David.Lawson@agonenviro.com.au
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CERTIFICATE OF ANALYSIS

Work Order : **EM2207398**
Client : **AGON ENVIRONMENTAL PTY LTD**
Contact : CRAIG TRIMBUR
Address : D1.1 63-85 TURNER STREET
 PORT MELBOURNE 3207

Telephone : ----
Project : JC0927
Order number : ----
C-O-C number : 20220426041206-ALS-21
Sampler : Brandon + TB - Agon, LR + HK - EP Risk
Site : 20220426041206-ALS-21
Quote number : EN/150/19 -WGTP -Bulk Sample Quote
No. of samples received : 54
No. of samples analysed : 54

Page : 1 of 76
Laboratory : Environmental Division Melbourne
Contact : Josh Alexander
Address : 4 Westall Rd Springvale VIC Australia 3171

Telephone : +61-3-8549 9600
Date Samples Received : 26-Apr-2022 12:35
Date Analysis Commenced : 26-Apr-2022
Issue Date : 29-Apr-2022 16:17



Accreditation No. 825
 Accredited for compliance with
 ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP231X: Poor matrix spike recovery for sample EM2207398-049 due to sample matrix interference.
- EG048G: EM2207398 #6 result for hexavalent chromium has been confirmed by re-preparation and re-analysis.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP074-UT: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074-WF: Where reported, Sum of trichlorobenzenes is the sum of the reported concentrations of 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene, and 1,3,5-Trichlorobenzene at or above the LOR.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.
- EN60-DI: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.
- EP231X-INJ: The direct injection LCMSMS method may be used where the sample matrix is not suitable for Solid Phase Extraction (e.g. significant particulate load) or where only a single sample container is received.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-001	EM2207398-002	EM2207398-005	EM2207398-006	EM2207398-007
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-001	EM2207398-002	EM2207398-005	EM2207398-006	EM2207398-007
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	97.6	93.6	95.1	101	94.5
13C8-PFOA	----	0.02	%	95.9	96.5	97.0	97.1	96.2



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-008	EM2207398-009	EM2207398-010	EM2207398-011	EM2207398-012
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-008	EM2207398-009	EM2207398-010	EM2207398-011	EM2207398-012
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	92.1	96.5	93.9	90.9	92.1
13C8-PFOA	----	0.02	%	94.7	94.4	93.8	98.2	94.9



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
Compound	CAS Number	LOR	Unit	EM2207398-013	EM2207398-014	EM2207398-015	EM2207398-016	EM2207398-017
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
Compound	CAS Number	LOR	Unit	EM2207398-013	EM2207398-014	EM2207398-015	EM2207398-016	EM2207398-017
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	88.7	93.1	87.7	97.0	91.6
13C8-PFOA	----	0.02	%	97.6	95.0	96.5	94.6	95.3



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-018	EM2207398-019	EM2207398-020	EM2207398-021	EM2207398-022
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-018	EM2207398-019	EM2207398-020	EM2207398-021	EM2207398-022
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	98.5	95.7	99.7	88.6	133
13C8-PFOA	----	0.02	%	95.3	98.7	94.6	95.2	98.8



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
Compound	CAS Number	LOR	Unit	EM2207398-023	EM2207398-024	EM2207398-025	EM2207398-026	EM2207398-027
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
Compound	CAS Number	LOR	Unit	EM2207398-023	EM2207398-024	EM2207398-025	EM2207398-026	EM2207398-027
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	135	135	138	135	140
13C8-PFOA	----	0.02	%	90.0	91.8	92.1	90.8	92.9



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

SX_IB_20220426_03_
 47_SS_Primary_ALS

Sampling date / time		26-Apr-2022 03:47		---	---	---	---
Compound	CAS Number	LOR	Unit	EM2207398-028	-----	-----	-----
				Result	---	---	---
EP231A: Perfluoroalkyl Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	---	---	---
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	---	---	---
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	---	---	---
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	---	---	---
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	---	---	---
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	---	---	---
EP231B: Perfluoroalkyl Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	---	---	---
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	---	---	---
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	---	---	---
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	---	---	---
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	---	---	---
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	---	---	---
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	---	---	---
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	---	---	---
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	---	---	---
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	---	---	---
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	---	---	---
EP231C: Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	---	---	---
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	---	---	---
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	---	---	---



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

SX_IB_20220426_03_
 47_SS_Primary_ALS

				Sampling date / time	26-Apr-2022 03:47	----	----	----	----
Compound	CAS Number	LOR	Unit	EM2207398-028	-----	-----	-----	-----	-----
				Result	----	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	----	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	----	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	----	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	----	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	----	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	----	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	----	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	----	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.10	µg/L	<0.10	----	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	----	----	----	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	----	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	94.0	----	----	----	----	----
13C8-PFOA	----	0.02	%	93.2	----	----	----	----	----



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-029	EM2207398-030	EM2207398-031	EM2207398-032	EM2207398-033
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-029	EM2207398-030	EM2207398-031	EM2207398-032	EM2207398-033
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	91.1	95.6	92.7	90.8	94.9
13C8-PFOA	----	0.02	%	92.5	94.6	93.3	93.5	90.2



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-034	EM2207398-035	EM2207398-036	EM2207398-037	EM2207398-038
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-034	EM2207398-035	EM2207398-036	EM2207398-037	EM2207398-038
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	85.8	89.9	90.5	94.0	90.8
13C8-PFOA	----	0.02	%	91.3	94.5	89.8	93.1	92.0



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
Compound	CAS Number	LOR	Unit	EM2207398-039	EM2207398-040	EM2207398-041	EM2207398-042	EM2207398-043
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
Compound	CAS Number	LOR	Unit	EM2207398-039	EM2207398-040	EM2207398-041	EM2207398-042	EM2207398-043
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	85.7	92.3	95.1	92.0	91.3
13C8-PFOA	----	0.02	%	92.6	89.2	88.5	90.2	96.1



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-044	EM2207398-045	EM2207398-046	EM2207398-047	EM2207398-048
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-044	EM2207398-045	EM2207398-046	EM2207398-047	EM2207398-048
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	86.1	86.3	94.3	92.0	79.5
13C8-PFOA	----	0.02	%	89.8	91.2	97.0	90.5	88.1



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

		Sampling date / time		SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Compound	CAS Number	LOR	Unit	EM2207398-049	EM2207398-050	EM2207398-051	EM2207398-052	EM2207398-053
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
Compound	CAS Number	LOR	Unit	EM2207398-049	EM2207398-050	EM2207398-051	EM2207398-052	EM2207398-053
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	83.2	86.9	86.0	133	85.4
13C8-PFOA	----	0.02	%	92.3	92.8	91.8	95.5	89.7



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

SX_IB_20220426_03_
 47_SS_Primary_ALS

Sampling date / time		LOR		Unit	Result				
26-Apr-2022 03:47									
EM2207398-054									
Result									
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	----	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	----	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	----	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	----	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	----	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	----	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	----	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	----	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	----	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	----	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	----	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	----	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	----	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	----	----	----	----	----
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	----	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	----	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	----	----	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	----	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	----	----	----	----	----



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

SX_IB_20220426_03_
 47_SS_Primary_ALS

				Sampling date / time				
Compound	CAS Number	LOR	Unit					
				26-Apr-2022 03:47	----	----	----	----
				EM2207398-054	-----	-----	-----	-----
				Result	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	----	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	----	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	85.0	----	----	----	----
13C8-PFOA	----	0.02	%	87.8	----	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-001	EM2207398-002	EM2207398-005	EM2207398-006	EM2207398-007
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl ₂)	----	0.1	pH Unit	7.8	7.8	7.8	7.9	7.9
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	28.4	30.4	30.6	31.4	30.0
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	34	27	41	42	39
Cadmium	7440-43-9	1	mg/kg	<1	<1	1	<1	<1
Chromium	7440-47-3	5	mg/kg	87	83	103	121	98
Copper	7440-50-8	5	mg/kg	49	95	57	59	54
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	142	177	161	179	160
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	83	105	88	111	96
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	200	110	140	140	130
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	8.5	8.9	8.9	9.1	9.3
After HCl pH	----	0.1	pH Unit	1.6	1.4	1.4	1.4	1.5
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.2	5.2	5.2	5.2	5.2
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-001	EM2207398-002	EM2207398-005	EM2207398-006	EM2207398-007
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-001	EM2207398-002	EM2207398-005	EM2207398-006	EM2207398-007
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-001	EM2207398-002	EM2207398-005	EM2207398-006	EM2207398-007
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-001	EM2207398-002	EM2207398-005	EM2207398-006	EM2207398-007
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-001	EM2207398-002	EM2207398-005	EM2207398-006	EM2207398-007
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS	SX_OB_20220423_16_04_SS_Primary_ALS
Sampling date / time				23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
Compound	CAS Number	LOR	Unit	EM2207398-001	EM2207398-002	EM2207398-005	EM2207398-006	EM2207398-007
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	103	106	98.3	110	105
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	79.2	94.6	95.7	82.7	93.6
Toluene-D8	2037-26-5	0.1	%	76.1	91.4	92.2	81.2	91.3
4-Bromofluorobenzene	460-00-4	0.1	%	87.8	102	101	92.2	102
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	84.3	90.3	83.6	92.2	82.2
2-Chlorophenol-D4	93951-73-6	0.025	%	80.9	86.8	78.1	87.5	77.1
2,4,6-Tribromophenol	118-79-6	0.025	%	78.1	79.7	73.7	81.8	75.0
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	82.2	88.8	80.7	90.1	79.0
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	73.2	81.4	72.2	81.7	70.9
2-Fluorobiphenyl	321-60-8	0.025	%	98.7	105	96.2	107	95.6
Anthracene-d10	1719-06-8	0.025	%	85.5	89.6	84.2	92.5	87.4
4-Terphenyl-d14	1718-51-0	0.025	%	93.0	97.0	91.4	101	95.3
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	106	89.4	100	95.8	110
13C8-PFOA	----	0.0002	%	107	99.2	98.0	100	97.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-008	EM2207398-009	EM2207398-010	EM2207398-011	EM2207398-012
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	8.0	7.9	7.8	8.0	8.1
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	28.3	31.7	32.2	29.7	30.5
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	32	38	30	29	41
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	102	107	104	91	107
Copper	7440-50-8	5	mg/kg	54	54	59	47	58
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	164	154	171	145	159
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	100	94	106	77	103
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	140	120	170	130	140
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.2	8.9	9.3	9.4	9.4
After HCl pH	----	0.1	pH Unit	1.5	1.5	1.5	1.5	1.4
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.2	5.2	5.1	5.1	5.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-008	EM2207398-009	EM2207398-010	EM2207398-011	EM2207398-012
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-008	EM2207398-009	EM2207398-010	EM2207398-011	EM2207398-012
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-008	EM2207398-009	EM2207398-010	EM2207398-011	EM2207398-012
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Compound	CAS Number	LOR	Unit	Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-008	EM2207398-009	EM2207398-010	EM2207398-011	EM2207398-012
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS	SX_OB_20220424_08_06_SS_Duplicate_ALS
Sampling date / time				23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
Compound	CAS Number	LOR	Unit	EM2207398-008	EM2207398-009	EM2207398-010	EM2207398-011	EM2207398-012
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	107	113	100	107	105
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	97.4	91.8	63.4	92.8	86.4
Toluene-D8	2037-26-5	0.1	%	95.6	88.5	58.0	87.0	82.4
4-Bromofluorobenzene	460-00-4	0.1	%	105	99.9	75.9	97.9	96.9
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	89.9	93.5	82.8	89.2	89.5
2-Chlorophenol-D4	93951-73-6	0.025	%	86.2	88.0	79.1	85.0	85.4
2,4,6-Tribromophenol	118-79-6	0.025	%	78.7	83.7	75.3	81.2	81.5
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	87.9	95.7	86.9	92.7	92.3
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	81.1	79.8	76.8	77.8	78.6
2-Fluorobiphenyl	321-60-8	0.025	%	105	108	99.0	104	104
Anthracene-d10	1719-06-8	0.025	%	89.0	94.0	86.2	88.7	89.6
4-Terphenyl-d14	1718-51-0	0.025	%	97.0	102	93.3	96.3	97.1
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	92.2	101	99.2	99.8	91.6
13C8-PFOA	----	0.0002	%	98.9	95.7	104	104	92.6



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48	
Compound	CAS Number	LOR	Unit	EM2207398-013	EM2207398-014	EM2207398-015	EM2207398-016	EM2207398-017	
				Result	Result	Result	Result	Result	
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl ₂)	----	0.1	pH Unit	7.7	7.8	7.8	7.7	7.7	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	30.4	29.4	31.3	32.1	33.3	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	31	30	30	30	24	
Cadmium	7440-43-9	1	mg/kg	<1	1	<1	<1	<1	
Chromium	7440-47-3	5	mg/kg	105	101	94	107	91	
Copper	7440-50-8	5	mg/kg	56	60	56	64	55	
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5	
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5	
Nickel	7440-02-0	5	mg/kg	159	172	170	163	165	
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5	
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2	
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10	
Zinc	7440-66-6	5	mg/kg	97	104	108	110	110	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	
EK026SF: Total CN by Segmented Flow Analyser									
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5	
EK040T: Fluoride Total									
Fluoride	16984-48-8	100	mg/kg	180	200	210	170	200	
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit	9.4	9.4	----	9.1	9.2	
After HCl pH	----	0.1	pH Unit	1.4	1.5	----	1.4	1.5	
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0	
Final pH	----	0.1	pH Unit	5.1	5.1	5.1	5.1	5.0	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP074A: Monocyclic Aromatic Hydrocarbons									
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
Compound	CAS Number	LOR	Unit	EM2207398-013	EM2207398-014	EM2207398-015	EM2207398-016	EM2207398-017
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3	106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
[^] Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
[^] Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
[^] Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
[^] Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
Compound	CAS Number	LOR	Unit	EM2207398-013	EM2207398-014	EM2207398-015	EM2207398-016	EM2207398-017
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
Compound	CAS Number	LOR	Unit	EM2207398-013	EM2207398-014	EM2207398-015	EM2207398-016	EM2207398-017
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48	
Compound	CAS Number	LOR	Unit	EM2207398-013	EM2207398-014	EM2207398-015	EM2207398-016	EM2207398-017	
				Result	Result	Result	Result	Result	
EP075I: Organochlorine Pesticides - Continued									
^ Sum of other organochlorine pesticides				----	0.03	mg/kg	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction				----	20	mg/kg	<20	<20	<20
C10 - C14 Fraction				----	50	mg/kg	<50	<50	<50
C6 - C10 Fraction				C6_C10	20	mg/kg	<20	<20	<20
C15 - C28 Fraction				----	100	mg/kg	<100	<100	<100
C29 - C36 Fraction				----	100	mg/kg	<100	<100	<100
^ C10 - C36 Fraction (sum)				----	50	mg/kg	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
>C10 - C16 Fraction				----	50	mg/kg	<50	<50	<50
>C16 - C34 Fraction				----	100	mg/kg	<100	<100	<100
>C34 - C40 Fraction				----	100	mg/kg	<100	<100	<100
^ >C10 - C40 Fraction (sum)				----	50	mg/kg	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)				----	50	mg/kg	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)				C6_C10-BTEX	20	mg/kg	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)				375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)				2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)				355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)				375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)				1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)				335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)				375-22-4	5	µg/kg	<5	<5	<5
Perfluoropentanoic acid (PFPeA)				2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)				307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)				375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48	
Compound	CAS Number	LOR	Unit	EM2207398-013	EM2207398-014	EM2207398-015	EM2207398-016	EM2207398-017	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS
Sampling date / time				24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48	
Compound	CAS Number	LOR	Unit	EM2207398-013	EM2207398-014	EM2207398-015	EM2207398-016	EM2207398-017	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	105	107	98.5	102	104	
EP074S: VOC Surrogates (Ultra-Trace)									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	89.8	79.3	86.9	65.5	79.1	
Toluene-D8	2037-26-5	0.1	%	88.9	76.6	82.4	66.6	81.5	
4-Bromofluorobenzene	460-00-4	0.1	%	103	91.0	93.4	78.0	90.6	
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%	88.4	82.6	75.9	80.5	85.5	
2-Chlorophenol-D4	93951-73-6	0.025	%	83.9	76.6	72.9	77.1	80.8	
2,4,6-Tribromophenol	118-79-6	0.025	%	78.9	76.6	71.6	74.5	77.0	
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%	91.9	83.0	80.0	85.8	87.8	
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	79.4	69.1	67.2	71.6	74.4	
2-Fluorobiphenyl	321-60-8	0.025	%	105	97.0	91.8	98.2	100	
Anthracene-d10	1719-06-8	0.025	%	89.6	86.6	81.5	85.0	85.9	
4-Terphenyl-d14	1718-51-0	0.025	%	97.2	96.0	88.2	91.4	92.6	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	91.8	96.8	93.7	90.0	96.8	
13C8-PFOA	----	0.0002	%	99.0	93.8	96.0	99.4	96.8	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-018	EM2207398-019	EM2207398-020	EM2207398-021	EM2207398-022
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	7.6	8.0	8.0	7.7	7.8
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	28.9	29.5	30.1	31.8	30.9
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	22	34	36	26	27
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	1
Chromium	7440-47-3	5	mg/kg	85	106	107	103	98
Copper	7440-50-8	5	mg/kg	53	59	60	57	60
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	6
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	146	169	167	157	152
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	98	98	96	102	96
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	200	150	130	180	170
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.3	9.3	9.1	9.1	9.0
After HCl pH	----	0.1	pH Unit	1.5	1.5	1.4	1.6	1.5
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.0	5.0	5.0	6.2	5.0
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-018	EM2207398-019	EM2207398-020	EM2207398-021	EM2207398-022
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-018	EM2207398-019	EM2207398-020	EM2207398-021	EM2207398-022
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-018	EM2207398-019	EM2207398-020	EM2207398-021	EM2207398-022
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-018	EM2207398-019	EM2207398-020	EM2207398-021	EM2207398-022
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-018	EM2207398-019	EM2207398-020	EM2207398-021	EM2207398-022
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS	SX_IB_20220425_07_57_SS_Duplicate_ALS
Sampling date / time				24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
Compound	CAS Number	LOR	Unit	EM2207398-018	EM2207398-019	EM2207398-020	EM2207398-021	EM2207398-022
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	104	99.9	101	113	99.5
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	60.6	79.1	91.2	83.0	79.8
Toluene-D8	2037-26-5	0.1	%	64.7	80.2	90.7	86.8	78.9
4-Bromofluorobenzene	460-00-4	0.1	%	66.9	88.7	98.6	90.9	87.9
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	86.2	84.2	82.8	91.2	80.9
2-Chlorophenol-D4	93951-73-6	0.025	%	81.4	79.7	78.8	85.2	75.1
2,4,6-Tribromophenol	118-79-6	0.025	%	77.0	76.7	75.1	83.5	73.1
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	88.4	86.4	86.2	92.1	81.2
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	74.3	71.2	72.4	76.3	65.8
2-Fluorobiphenyl	321-60-8	0.025	%	99.7	97.0	96.7	107	94.5
Anthracene-d10	1719-06-8	0.025	%	86.4	83.8	82.8	93.7	82.2
4-Terphenyl-d14	1718-51-0	0.025	%	94.4	90.5	90.9	102	89.0
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	90.8	99.1	90.4	94.8	106
13C8-PFOA	----	0.0002	%	98.6	99.6	91.5	99.0	101



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
Compound	CAS Number	LOR	Unit	EM2207398-023	EM2207398-024	EM2207398-025	EM2207398-026	EM2207398-027
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl ₂)	----	0.1	pH Unit	7.6	7.7	7.7	7.6	8.0
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	26.0	32.1	18.9	31.7	32.2
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	28	24	24	29	18
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	103	96	85	110	92
Copper	7440-50-8	5	mg/kg	58	55	47	62	53
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	141	159	120	145	137
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	106	99	80	95	88
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	180	200	200	160	230
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.0	9.0	8.9	8.9	9.3
After HCl pH	----	0.1	pH Unit	1.5	1.5	1.5	1.5	1.5
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.0	5.1	5.0	5.1	5.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
Compound	CAS Number	LOR	Unit	EM2207398-023	EM2207398-024	EM2207398-025	EM2207398-026	EM2207398-027
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3	106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
[^] Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
[^] Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
[^] Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
[^] Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
Compound	CAS Number	LOR	Unit	EM2207398-023	EM2207398-024	EM2207398-025	EM2207398-026	EM2207398-027
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
Compound	CAS Number	LOR	Unit	EM2207398-023	EM2207398-024	EM2207398-025	EM2207398-026	EM2207398-027
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS	
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02		
Compound	CAS Number	LOR	Unit	EM2207398-023	EM2207398-024	EM2207398-025	EM2207398-026	EM2207398-027		
				Result	Result	Result	Result	Result		
EP075I: Organochlorine Pesticides - Continued										
^ Sum of other organochlorine pesticides				----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction				----	20	mg/kg	<20	<20	<20	<20
C10 - C14 Fraction				----	50	mg/kg	<50	<50	<50	<50
C6 - C10 Fraction				C6_C10	20	mg/kg	<20	<20	<20	<20
C15 - C28 Fraction				----	100	mg/kg	<100	<100	<100	<100
C29 - C36 Fraction				----	100	mg/kg	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)				----	50	mg/kg	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions										
>C10 - C16 Fraction				----	50	mg/kg	<50	<50	<50	<50
>C16 - C34 Fraction				----	100	mg/kg	<100	<100	<100	<100
>C34 - C40 Fraction				----	100	mg/kg	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)				----	50	mg/kg	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)				----	50	mg/kg	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)				C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids										
Perfluorobutane sulfonic acid (PFBS)				375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)				2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)				355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)				375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)				1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)				335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids										
Perfluorobutanoic acid (PFBA)				375-22-4	5	µg/kg	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)				2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)				307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)				375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
Compound	CAS Number	LOR	Unit	EM2207398-023	EM2207398-024	EM2207398-025	EM2207398-026	EM2207398-027
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS	SX_IB_20220426_00_02_SS_Primary_ALS
Sampling date / time				25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02	
Compound	CAS Number	LOR	Unit	EM2207398-023	EM2207398-024	EM2207398-025	EM2207398-026	EM2207398-027	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	104	112	102	95.4	103	
EP074S: VOC Surrogates (Ultra-Trace)									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	72.7	74.2	91.9	82.7	85.7	
Toluene-D8	2037-26-5	0.1	%	74.2	73.2	90.9	84.1	86.7	
4-Bromofluorobenzene	460-00-4	0.1	%	83.1	82.3	98.4	88.9	91.9	
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%	78.9	80.5	85.2	80.7	74.3	
2-Chlorophenol-D4	93951-73-6	0.025	%	83.5	87.3	85.3	78.9	84.0	
2,4,6-Tribromophenol	118-79-6	0.025	%	80.9	87.3	80.6	81.4	84.0	
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%	93.3	98.6	95.2	86.5	92.7	
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	82.9	86.2	83.9	76.6	81.7	
2-Fluorobiphenyl	321-60-8	0.025	%	108	109	104	97.9	104	
Anthracene-d10	1719-06-8	0.025	%	96.3	101	98.1	91.2	95.8	
4-Terphenyl-d14	1718-51-0	0.025	%	92.7	99.2	94.9	89.0	95.6	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	89.8	85.2	81.0	94.4	85.0	
13C8-PFOA	----	0.0002	%	99.1	98.0	99.4	96.4	103	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS
Sampling date / time				26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
Compound	CAS Number	LOR	Unit	EM2207398-028	EM2207398-029	EM2207398-030	EM2207398-031	EM2207398-032
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	8.2	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	30.3	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	23	----	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
Chromium	7440-47-3	5	mg/kg	94	----	----	----	----
Copper	7440-50-8	5	mg/kg	62	----	----	----	----
Lead	7439-92-1	5	mg/kg	<5	----	----	----	----
Molybdenum	7439-98-7	5	mg/kg	<5	----	----	----	----
Nickel	7440-02-0	5	mg/kg	163	----	----	----	----
Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----
Silver	7440-22-4	2	mg/kg	<2	----	----	----	----
Tin	7440-31-5	10	mg/kg	<10	----	----	----	----
Zinc	7440-66-6	5	mg/kg	107	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	----	----	----	----
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	230	----	----	----	----
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Extraction Fluid pH	----	0.1	pH Unit	5.0	----	----	----	----
Final pH	----	0.1	pH Unit	5.2	----	----	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	----	9.1	9.1	9.1	9.3
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS
Sampling date / time				26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
Compound	CAS Number	LOR	Unit	EM2207398-028	EM2207398-029	EM2207398-030	EM2207398-031	EM2207398-032
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	----	----	----
Styrene	100-42-5	0.5	mg/kg	<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	----	----
^ Total Xylenes	----	0.5	mg/kg	<0.5	----	----	----	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	----	----	----
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	----	----	----	----
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	----	----	----	----
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	----	----	----	----
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	----	----	----	----
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	----	----	----	----
Chloroform	67-66-3	0.50	mg/kg	<0.50	----	----	----	----
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	----	----	----	----
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	----	----	----	----
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	----	----	----	----
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	----	----	----	----
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	----	----	----	----
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	----	----	----	----
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	----	----	----	----
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	----	----	----	----
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	----	----	----	----
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	----	----	----	----
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	----	----	----	----
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	----	----	----	----
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	----	----	----	----
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	----	----	----	----
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS
Sampling date / time				26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
Compound	CAS Number	LOR	Unit	EM2207398-028	EM2207398-029	EM2207398-030	EM2207398-031	EM2207398-032
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	----	----	----	----
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	----	----	----	----
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	----	----	----	----
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	----	----	----	----
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	----	----	----	----
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	----	----	----	----
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	----	----	----	----
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	----	----	----	----
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	----	----	----	----
2-Methylphenol	95-48-7	1	mg/kg	<1	----	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	----	----	----	----
2-Nitrophenol	88-75-5	1	mg/kg	<1	----	----	----	----
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	----	----	----	----
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	----	----	----	----
4-Nitrophenol	100-02-7	5	mg/kg	<5	----	----	----	----
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	----	----	----	----
Dinoseb	88-85-7	20	mg/kg	<20	----	----	----	----
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	----	----	----	----
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS
Sampling date / time				26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
Compound	CAS Number	LOR	Unit	EM2207398-028	EM2207398-029	EM2207398-030	EM2207398-031	EM2207398-032
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	----	----	----	----
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	----	----	----	----
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	----	----	----	----
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	----	----	----	----
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	----	----	----	----
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	----	----	----	----
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	----	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS
Sampling date / time				26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
Compound	CAS Number	LOR	Unit	EM2207398-028	EM2207398-029	EM2207398-030	EM2207398-031	EM2207398-032
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	----	----	----	----
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	----	----	----	----
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	----	----	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	----	----
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	----	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS
Sampling date / time				26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
Compound	CAS Number	LOR	Unit	EM2207398-028	EM2207398-029	EM2207398-030	EM2207398-031	EM2207398-032
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_10_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS	SX_OB_20220423_12_11_SB_Primary_ALS	SX_OB_20220423_16_03_SS_Triplicate_ALS
Sampling date / time				26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
Compound	CAS Number	LOR	Unit	EM2207398-028	EM2207398-029	EM2207398-030	EM2207398-031	EM2207398-032
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	----	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	----	----	----	----
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	----	----	----	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	104	----	----	----	----
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	93.9	----	----	----	----
Toluene-D8	2037-26-5	0.1	%	93.1	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.1	%	101	----	----	----	----
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	77.5	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.025	%	85.0	----	----	----	----
2,4,6-Tribromophenol	118-79-6	0.025	%	84.9	----	----	----	----
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	95.5	----	----	----	----
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	83.8	----	----	----	----
2-Fluorobiphenyl	321-60-8	0.025	%	105	----	----	----	----
Anthracene-d10	1719-06-8	0.025	%	97.8	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.025	%	96.6	----	----	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	94.4	----	----	----	----
13C8-PFOA	----	0.0002	%	101	----	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220423_16_04_SS_Primary_ALS	SX_OB_20220423_20_07_SS_Primary_ALS	SX_OB_20220424_00_14_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS	SX_OB_20220424_08_05_SS_Primary_ALS
Sampling date / time				23-Apr-2022 16:04	23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06
Compound	CAS Number	LOR	Unit	EM2207398-033	EM2207398-034	EM2207398-035	EM2207398-036	EM2207398-037
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.3	9.4	9.2	9.2	9.4



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220424_08_06_SS_Duplicate_ALS	SX_IB_20220424_12_03_SS_Primary_ALS	SX_IB_20220424_16_05_SS_Primary_ALS	SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_19_54_SS_Primary_ALS
Sampling date / time				24-Apr-2022 08:07	24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54
Compound	CAS Number	LOR	Unit	EM2207398-038	EM2207398-039	EM2207398-040	EM2207398-041	EM2207398-042
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.5	9.2	9.2	9.2	9.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220424_23_48_SS_Primary_ALS	SX_IB_20220424_23_55_SS_Primary_ALS	SX_OB_20220425_04_16_SS_Primary_ALS	SX_OB_20220425_04_18_SS_Duplicate_ALS	SX_IB_20220425_07_56_SS_Primary_ALS
Sampling date / time				24-Apr-2022 23:48	24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56
Compound	CAS Number	LOR	Unit	EM2207398-043	EM2207398-044	EM2207398-045	EM2207398-046	EM2207398-047
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.2	9.2	9.5	9.6	9.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220425_07_57_SS_Duplicate_ALS	SX_IB_20220425_11_48_SS_Primary_ALS	SX_IB_20220425_15_50_SS_Primary_ALS	SX_IB_20220425_15_58_SS_Triplicate_ALS	SX_IB_20220425_19_49_SS_Primary_ALS
Sampling date / time				25-Apr-2022 07:57	25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207398-048	EM2207398-049	EM2207398-050	EM2207398-051	EM2207398-052
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.3	9.2	9.3	9.3	9.2



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220426_00_02_SS_Primary_ALS	SX_IB_20220426_03_47_SS_Primary_ALS	----	----	----
Sampling date / time				26-Apr-2022 00:02	26-Apr-2022 03:47	----	----	----	
Compound	CAS Number	LOR	Unit	EM2207398-053	EM2207398-054	-----	-----	-----	
				Result	Result	---	---	---	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit	9.5	9.9	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID		SX_OB_20220423_08 _38_SS_Blank_ALS	SX_OB_20220423_08 _36_SR_Rinsate_ALS	----	----	----
Sampling date / time			23-Apr-2022 08:38		23-Apr-2022 08:36		----	----	----
Compound	CAS Number	LOR	Unit	EM2207398-003	EM2207398-004	-----	-----	-----	
				Result	Result	---	---	---	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	----	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.10	µg/L	<0.10	<0.10	----	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	----	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SX_OB_20220423_08 _38_SS_Blank_ALS	SX_OB_20220423_08 _36_SR_Rinsate_ALS	----	----	----
Sampling date / time				23-Apr-2022 08:38	23-Apr-2022 08:36	----	----	----	
Compound	CAS Number	LOR	Unit	EM2207398-003	EM2207398-004	-----	-----	-----	
				Result	Result	---	---	---	
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	----	----	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	----	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	----	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	----	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	96.9	104	----	----	----	
13C8-PFOA	----	0.02	%	103	103	----	----	----	



Surrogate Control Limits

Sub-Matrix: ASLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: DI WATER LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	41	122
EP074S: VOC Surrogates (Ultra-Trace)			
1,2-Dichloroethane-D4	17060-07-0	59	119
Toluene-D8	2037-26-5	55	117
4-Bromofluorobenzene	460-00-4	59	123
EP075S: Acid Extractable Surrogates (Waste Classification)			
Phenol-d6	13127-88-3	63	134
2-Chlorophenol-D4	93951-73-6	60	125
2,4,6-Tribromophenol	118-79-6	54	129
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)			
Nitrobenzene-D5	4165-60-0	63	131
1,2-Dichlorobenzene-D4	2199-69-1	61	124
2-Fluorobiphenyl	321-60-8	69	131
Anthracene-d10	1719-06-8	70	133
4-Terphenyl-d14	1718-51-0	59	141
EP231S: PFAS Surrogate			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Automated Guideline Comparison Report

EPA Victoria Publication IWRG 621 (2009) - Table 2: Soil Hazard Categorisation

Work Order	: EM2207398	Page	: 1 of 70
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: CRAIG TRIMBUR		
Address	: D1.1 63-85 TURNER STREET PORT MELBOURNE 3207	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: ----	E-mail	: Josh.Alexander@alsglobal.com
Telephone	: ----	Telephone	: +61-3-8549 9600
Facsimile	: ----	Facsimile	: +61-3-8549 9626
Project	: JC0927	Date Received	: 26-Apr-2022 12:35
Order number	: ----	Date Analysed	: 26-Apr-2022
C-O-C number	: 20220426041206-ALS-21	Date Issued	: 29-Apr-2022 16:10
No. of samples received	: 54		
No. of samples analysed	: 54	Quote number	: EN/150/19 -WGTP -Bulk Sample Quote

General Comments

This guideline comparison report **only** provides comparison of total concentration data against upper limit thresholds for the 'Fill Material', 'C', 'B' Categories in Table 2 of EPA Publication IWRG621.

This guideline comparison report is **NOT** a soil classification report. Classification of soils as Fill Material, Category C, Category B or Category A requires consideration of a number of other factors including preliminary site investigation, sampling density and statistical calculations, as set out in EPA Publication IWRG 702 and measurement uncertainty.

This guideline comparison report only provides comparison data for parameters, specifically listed within the IWRG621 (2009) guideline, that are analysed by ALS.

Only results in the 'Analytical Results' section have been compared to the guideline.

Additional information pertinent to this report will be found in the following separate attachments: Certificate of Analysis, Quality Control Report, QA/QC Compliance Assessment to Assist with Quality Review and Sample Receipt Notification.



Summary of Thresholds Reached or Exceeded

EPA Victoria Publication IWRG 621 (2009)

Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Client Sample ID	ALS Sample ID	Compound	Method	LOR	Limits	Result
SX_OB_20220423_08_10_SS_Primary_ALS	EM2207398-001	Arsenic	EG005T	5	< 20 mg/kg	34 mg/kg
SX_OB_20220423_08_10_SS_Primary_ALS	EM2207398-001	Nickel	EG005T	5	< 60 mg/kg	142 mg/kg
SX_OB_20220423_08_12_SS_Duplicate_ALS	EM2207398-002	Arsenic	EG005T	5	< 20 mg/kg	27 mg/kg
SX_OB_20220423_08_12_SS_Duplicate_ALS	EM2207398-002	Nickel	EG005T	5	< 60 mg/kg	177 mg/kg
SX_OB_20220423_12_11_SB_Primary_ALS	EM2207398-005	Arsenic	EG005T	5	< 20 mg/kg	41 mg/kg
SX_OB_20220423_12_11_SB_Primary_ALS	EM2207398-005	Nickel	EG005T	5	< 60 mg/kg	161 mg/kg
SX_OB_20220423_16_03_SS_Triplicate_ALS	EM2207398-006	Arsenic	EG005T	5	< 20 mg/kg	42 mg/kg
SX_OB_20220423_16_03_SS_Triplicate_ALS	EM2207398-006	Nickel	EG005T	5	< 60 mg/kg	179 mg/kg
SX_OB_20220423_16_04_SS_Primary_ALS	EM2207398-007	Arsenic	EG005T	5	< 20 mg/kg	39 mg/kg
SX_OB_20220423_16_04_SS_Primary_ALS	EM2207398-007	Nickel	EG005T	5	< 60 mg/kg	160 mg/kg
SX_OB_20220423_20_07_SS_Primary_ALS	EM2207398-008	Arsenic	EG005T	5	< 20 mg/kg	32 mg/kg
SX_OB_20220423_20_07_SS_Primary_ALS	EM2207398-008	Nickel	EG005T	5	< 60 mg/kg	164 mg/kg
SX_OB_20220424_00_14_SS_Primary_ALS	EM2207398-009	Arsenic	EG005T	5	< 20 mg/kg	38 mg/kg
SX_OB_20220424_00_14_SS_Primary_ALS	EM2207398-009	Nickel	EG005T	5	< 60 mg/kg	154 mg/kg
SX_IB_20220424_04_08_S_S_Primary_ALS	EM2207398-010	Arsenic	EG005T	5	< 20 mg/kg	30 mg/kg
SX_IB_20220424_04_08_S_S_Primary_ALS	EM2207398-010	Nickel	EG005T	5	< 60 mg/kg	171 mg/kg
SX_OB_20220424_08_05_SS_Primary_ALS	EM2207398-011	Arsenic	EG005T	5	< 20 mg/kg	29 mg/kg
SX_OB_20220424_08_05_SS_Primary_ALS	EM2207398-011	Nickel	EG005T	5	< 60 mg/kg	145 mg/kg
SX_OB_20220424_08_06_SS_Duplicate_ALS	EM2207398-012	Arsenic	EG005T	5	< 20 mg/kg	41 mg/kg



EPA Victoria Publication IWRG 621 (2009)

Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Client Sample ID	ALS Sample ID	Compound	Method	LOR	Limits	Result
SX_OB_20220424_08_06_S SS_Duplicate_ALS	EM2207398-012	Nickel	EG005T	5	< 60 mg/kg	159 mg/kg
SX_IB_20220424_12_03_S S_Primary_ALS	EM2207398-013	Arsenic	EG005T	5	< 20 mg/kg	31 mg/kg
SX_IB_20220424_12_03_S S_Primary_ALS	EM2207398-013	Nickel	EG005T	5	< 60 mg/kg	159 mg/kg
SX_IB_20220424_16_05_S S_Primary_ALS	EM2207398-014	Arsenic	EG005T	5	< 20 mg/kg	30 mg/kg
SX_IB_20220424_16_05_S S_Primary_ALS	EM2207398-014	Nickel	EG005T	5	< 60 mg/kg	172 mg/kg
SX_IB_20220424_16_49_S S_Triplicate_ALS	EM2207398-015	Arsenic	EG005T	5	< 20 mg/kg	30 mg/kg
SX_IB_20220424_16_49_S S_Triplicate_ALS	EM2207398-015	Nickel	EG005T	5	< 60 mg/kg	170 mg/kg
SX_IB_20220424_19_54_S S_Primary_ALS	EM2207398-016	Arsenic	EG005T	5	< 20 mg/kg	30 mg/kg
SX_IB_20220424_19_54_S S_Primary_ALS	EM2207398-016	Nickel	EG005T	5	< 60 mg/kg	163 mg/kg
SX_IB_20220424_23_48_S S_Primary_ALS	EM2207398-017	Arsenic	EG005T	5	< 20 mg/kg	24 mg/kg
SX_IB_20220424_23_48_S S_Primary_ALS	EM2207398-017	Nickel	EG005T	5	< 60 mg/kg	165 mg/kg
SX_IB_20220424_23_55_S S_Primary_ALS	EM2207398-018	Arsenic	EG005T	5	< 20 mg/kg	22 mg/kg
SX_IB_20220424_23_55_S S_Primary_ALS	EM2207398-018	Nickel	EG005T	5	< 60 mg/kg	146 mg/kg
SX_OB_20220425_04_16_S SS_Primary_ALS	EM2207398-019	Arsenic	EG005T	5	< 20 mg/kg	34 mg/kg
SX_OB_20220425_04_16_S SS_Primary_ALS	EM2207398-019	Nickel	EG005T	5	< 60 mg/kg	169 mg/kg
SX_OB_20220425_04_18_S SS_Duplicate_ALS	EM2207398-020	Arsenic	EG005T	5	< 20 mg/kg	36 mg/kg
SX_OB_20220425_04_18_S SS_Duplicate_ALS	EM2207398-020	Nickel	EG005T	5	< 60 mg/kg	167 mg/kg
SX_IB_20220425_07_56_S S_Primary_ALS	EM2207398-021	Arsenic	EG005T	5	< 20 mg/kg	26 mg/kg
SX_IB_20220425_07_56_S S_Primary_ALS	EM2207398-021	Nickel	EG005T	5	< 60 mg/kg	157 mg/kg
SX_IB_20220425_07_57_S S_Duplicate_ALS	EM2207398-022	Arsenic	EG005T	5	< 20 mg/kg	27 mg/kg



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Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Client Sample ID	ALS Sample ID	Compound	Method	LOR	Limits	Result
SX_IB_20220425_07_57_S S_Duplicate_ALS	EM2207398-022	Nickel	EG005T	5	< 60 mg/kg	152 mg/kg
SX_IB_20220425_11_48_S S_Primary_ALS	EM2207398-023	Arsenic	EG005T	5	< 20 mg/kg	28 mg/kg
SX_IB_20220425_11_48_S S_Primary_ALS	EM2207398-023	Nickel	EG005T	5	< 60 mg/kg	141 mg/kg
SX_IB_20220425_15_50_S S_Primary_ALS	EM2207398-024	Arsenic	EG005T	5	< 20 mg/kg	24 mg/kg
SX_IB_20220425_15_50_S S_Primary_ALS	EM2207398-024	Nickel	EG005T	5	< 60 mg/kg	159 mg/kg
SX_IB_20220425_15_58_S S_Triplicate_ALS	EM2207398-025	Arsenic	EG005T	5	< 20 mg/kg	24 mg/kg
SX_IB_20220425_15_58_S S_Triplicate_ALS	EM2207398-025	Nickel	EG005T	5	< 60 mg/kg	120 mg/kg
SX_IB_20220425_19_49_S S_Primary_ALS	EM2207398-026	Arsenic	EG005T	5	< 20 mg/kg	29 mg/kg
SX_IB_20220425_19_49_S S_Primary_ALS	EM2207398-026	Nickel	EG005T	5	< 60 mg/kg	145 mg/kg
SX_IB_20220426_00_02_S S_Primary_ALS	EM2207398-027	Nickel	EG005T	5	< 60 mg/kg	137 mg/kg
SX_IB_20220426_03_47_S S_Primary_ALS	EM2207398-028	Arsenic	EG005T	5	< 20 mg/kg	23 mg/kg
SX_IB_20220426_03_47_S S_Primary_ALS	EM2207398-028	Nickel	EG005T	5	< 60 mg/kg	163 mg/kg



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	423_08_10_S	423_08_12_S	423_12_11_S	423_16_03_S	423_16_04_S
						S_Primary_ALS	S_Duplicate_ALS	B_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
						EM2207398-001 MU	EM2207398-002 MU	EM2207398-005 MU	EM2207398-006 MU	EM2207398-007 MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220 423_08_10_S S_Primary_AL S	SX_OB_20220 423_08_12_S S_Duplicate_ ALS	SX_OB_20220 423_12_11_S B_Primary_AL S	SX_OB_20220 423_16_03_S S_Triplicate_ ALS	SX_OB_20220 423_16_04_S S_Primary_AL S
				Guideline	Guideline	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
				Lower Limit	Upper Limit	EM2207398-001 MU	EM2207398-002 MU	EM2207398-005 MU	EM2207398-006 MU	EM2207398-007 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.8 ± 0.1	7.8 ± 0.1	7.8 ± 0.1	7.9 ± 0.1	7.9 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	34 ± 5	27 ± 4	41 ± 5	42 ± 6	39 ± 5
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	1 ± 0.2	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	5000	49 ± 6	95 ± 12	57 ± 7	59 ± 7	54 ± 7
Lead	EG005T	5	mg/kg	----	1500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	1000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	3000	142 ± 14	177 ± 17	161 ± 16	179 ± 18	160 ± 16
Selenium	EG005T	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	180	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	500	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	35000	83 ± 9	105 ± 12	88 ± 10	111 ± 12	96 ± 11
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	200 ± 40	110 ± 30	140 ± 30	140 ± 30	130 ± 30
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	423_08_10_S	423_08_12_S	423_12_11_S	423_16_03_S	423_16_04_S
						S_Primary_ALS	S_Duplicate_ALS	B_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
						EM2207398-001 MU	EM2207398-002 MU	EM2207398-005 MU	EM2207398-006 MU	EM2207398-007 MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	423_08_10_S	423_08_12_S	423_12_11_S	423_16_03_S	423_16_04_S
						S_Primary_ALS	S_Duplicate_ALS	B_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
						EM2207398-001 MU	EM2207398-002 MU	EM2207398-005 MU	EM2207398-006 MU	EM2207398-007 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.8 ± 0.1	7.8 ± 0.1	7.8 ± 0.1	7.9 ± 0.1	7.9 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	34 ± 5	27 ± 4	41 ± 5	42 ± 6	39 ± 5
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	1 ± 0.2	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	100	49 ± 6	95 ± 12	57 ± 7	59 ± 7	54 ± 7
Lead	EG005T	5	mg/kg	----	300	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	40	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	60	142 ± 14	177 ± 17	161 ± 16	179 ± 18	160 ± 16
Selenium	EG005T	5	mg/kg	----	10	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	10	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	50	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	200	83 ± 9	105 ± 12	88 ± 10	111 ± 12	96 ± 11
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	200 ± 40	110 ± 30	140 ± 30	140 ± 30	130 ± 30
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	1	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	1	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	423_08_10_S	423_08_12_S	423_12_11_S	423_16_03_S	423_16_04_S
						S_Primary_ALS	S_Duplicate_ALS	B_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	23-Apr-2022 16:04
						EM2207398-001 MU	EM2207398-002 MU	EM2207398-005 MU	EM2207398-006 MU	EM2207398-007 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220 423_20_07_S S_Primary_AL S	SX_OB_20220 424_00_14_S S_Primary_AL S	SX_IB_20220 424_04_08_S S_Primary_AL S	SX_OB_20220 424_08_05_S S_Primary_AL S	SX_OB_20220 424_08_06_S S_Duplicate_ ALS
				Guideline	Guideline	23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
				Lower Limit	Upper Limit	EM2207398-008 MU	EM2207398-009 MU	EM2207398-010 MU	EM2207398-011 MU	EM2207398-012 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	8.0 ± 0.1	7.9 ± 0.1	7.8 ± 0.1	8.0 ± 0.1	8.1 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	32 ± 4	38 ± 5	30 ± 4	29 ± 4	41 ± 5
Cadmium	EG005T	1	mg/kg	----	400	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	20000	54 ± 6	54 ± 6	59 ± 7	47 ± 6	58 ± 7
Lead	EG005T	5	mg/kg	----	6000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	4000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	12000	164 ± 16	154 ± 15	171 ± 17	145 ± 14	159 ± 16
Selenium	EG005T	5	mg/kg	----	200	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	720	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Zinc	EG005T	5	mg/kg	----	140000	100 ± 11	94 ± 10	106 ± 12	77 ± 9	103 ± 11
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	300	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	10000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	40000	140 ± 30	120 ± 30	170 ± 40	130 ± 30	140 ± 30
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	16	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	240	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	50	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	423_20_07_S	424_00_14_S	424_04_08_S	424_08_05_S	424_08_06_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
						EM2207398-008 MU	EM2207398-009 MU	EM2207398-010 MU	EM2207398-011 MU	EM2207398-012 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220 423_20_07_S S_Primary_AL S	SX_OB_20220 424_00_14_S S_Primary_AL S	SX_IB_20220 424_04_08_S S_Primary_AL S	SX_OB_20220 424_08_05_S S_Primary_AL S	SX_OB_20220 424_08_06_S S_Duplicate_ ALS
				Lower Limit	Upper Limit	23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
						EM2207398-008 MU	EM2207398-009 MU	EM2207398-010 MU	EM2207398-011 MU	EM2207398-012 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	8.0 ± 0.1	7.9 ± 0.1	7.8 ± 0.1	8.0 ± 0.1	8.1 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	32 ± 4	38 ± 5	30 ± 4	29 ± 4	41 ± 5
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	5000	54 ± 6	54 ± 6	59 ± 7	47 ± 6	58 ± 7
Lead	EG005T	5	mg/kg	----	1500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	1000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	3000	164 ± 16	154 ± 15	171 ± 17	145 ± 14	159 ± 16
Selenium	EG005T	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	180	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	500	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	35000	100 ± 11	94 ± 10	106 ± 12	77 ± 9	103 ± 11
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	140 ± 30	120 ± 30	170 ± 40	130 ± 30	140 ± 30
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	423_20_07_S	424_00_14_S	424_04_08_S	424_08_05_S	424_08_06_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
						EM2207398-008 MU	EM2207398-009 MU	EM2207398-010 MU	EM2207398-011 MU	EM2207398-012 MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220 423_20_07_S S_Primary_AL S	SX_OB_20220 424_00_14_S S_Primary_AL S	SX_IB_20220 424_04_08_S S_Primary_AL S	SX_OB_20220 424_08_05_S S_Primary_AL S	SX_OB_20220 424_08_06_S S_Duplicate_ ALS
				Lower Limit	Upper Limit	23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
						EM2207398-008 MU	EM2207398-009 MU	EM2207398-010 MU	EM2207398-011 MU	EM2207398-012 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	8.0 ± 0.1	7.9 ± 0.1	7.8 ± 0.1	8.0 ± 0.1	8.1 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	32 ± 4	38 ± 5	30 ± 4	29 ± 4	41 ± 5
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	100	54 ± 6	54 ± 6	59 ± 7	47 ± 6	58 ± 7
Lead	EG005T	5	mg/kg	----	300	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	40	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	60	164 ± 16	154 ± 15	171 ± 17	145 ± 14	159 ± 16
Selenium	EG005T	5	mg/kg	----	10	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	10	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	50	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	200	100 ± 11	94 ± 10	106 ± 12	77 ± 9	103 ± 11
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	140 ± 30	120 ± 30	170 ± 40	130 ± 30	140 ± 30
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	1	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	1	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	423_20_07_S	424_00_14_S	424_04_08_S	424_08_05_S	424_08_06_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06	24-Apr-2022 08:07
						EM2207398-008 MU	EM2207398-009 MU	EM2207398-010 MU	EM2207398-011 MU	EM2207398-012 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	424_12_03_S	424_16_05_S	424_16_49_S	424_19_54_S	424_23_48_S
						S_Primary_ALS	S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
						EM2207398-013 MU	EM2207398-014 MU	EM2207398-015 MU	EM2207398-016 MU	EM2207398-017 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	7.7 ± 0.1	7.8 ± 0.1	7.8 ± 0.1	7.7 ± 0.1	7.7 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	31 ± 4	30 ± 4	30 ± 4	30 ± 4	24 ± 4
Cadmium	EG005T	1	mg/kg	----	400	<1 ..	1 ± 0.2	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	20000	56 ± 7	60 ± 7	56 ± 7	64 ± 8	55 ± 7
Lead	EG005T	5	mg/kg	----	6000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	4000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	12000	159 ± 16	172 ± 17	170 ± 17	163 ± 16	165 ± 16
Selenium	EG005T	5	mg/kg	----	200	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	720	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Zinc	EG005T	5	mg/kg	----	140000	97 ± 11	104 ± 12	108 ± 12	110 ± 12	110 ± 12
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	300	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	10000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	40000	180 ± 40	200 ± 40	210 ± 40	170 ± 40	200 ± 40
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	16	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	240	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	50	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 424_12_03_S S_Primary_AL S	SX_IB_20220 424_16_05_S S_Primary_AL S	SX_IB_20220 424_16_49_S S_Triplicate_ ALS	SX_IB_20220 424_19_54_S S_Primary_AL S	SX_IB_20220 424_23_48_S S_Primary_AL S
				Guideline	Guideline	24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
				Lower Limit	Upper Limit	EM2207398-013 MU	EM2207398-014 MU	EM2207398-015 MU	EM2207398-016 MU	EM2207398-017 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 424_12_03_S S_Primary_AL S	SX_IB_20220 424_16_05_S S_Primary_AL S	SX_IB_20220 424_16_49_S S_Triplicate_ ALS	SX_IB_20220 424_19_54_S S_Primary_AL S	SX_IB_20220 424_23_48_S S_Primary_AL S
				Guideline	Guideline	24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
				Lower Limit	Upper Limit	EM2207398-013 MU	EM2207398-014 MU	EM2207398-015 MU	EM2207398-016 MU	EM2207398-017 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.7 ±0.1	7.8 ±0.1	7.8 ±0.1	7.7 ±0.1	7.7 ±0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	31 ±4	30 ±4	30 ±4	30 ±4	24 ±4
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	1 ±0.2	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	5000	56 ±7	60 ±7	56 ±7	64 ±8	55 ±7
Lead	EG005T	5	mg/kg	----	1500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	1000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	3000	159 ±16	172 ±17	170 ±17	163 ±16	165 ±16
Selenium	EG005T	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	180	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	500	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	35000	97 ±11	104 ±12	108 ±12	110 ±12	110 ±12
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	180 ±40	200 ±40	210 ±40	170 ±40	200 ±40
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	424_12_03_S	424_16_05_S	424_16_49_S	424_19_54_S	424_23_48_S
						S_Primary_ALS	S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
						EM2207398-013 MU	EM2207398-014 MU	EM2207398-015 MU	EM2207398-016 MU	EM2207398-017 MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 424_12_03_S S_Primary_AL S	SX_IB_20220 424_16_05_S S_Primary_AL S	SX_IB_20220 424_16_49_S S_Triplicate_ ALS	SX_IB_20220 424_19_54_S S_Primary_AL S	SX_IB_20220 424_23_48_S S_Primary_AL S
				Guideline	Guideline	24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
				Lower Limit	Upper Limit	EM2207398-013 MU	EM2207398-014 MU	EM2207398-015 MU	EM2207398-016 MU	EM2207398-017 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.7 ±0.1	7.8 ±0.1	7.8 ±0.1	7.7 ±0.1	7.7 ±0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	31 ±4	30 ±4	30 ±4	30 ±4	24 ±4
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	1 ±0.2	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	100	56 ±7	60 ±7	56 ±7	64 ±8	55 ±7
Lead	EG005T	5	mg/kg	----	300	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	40	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	60	159 ±16	172 ±17	170 ±17	163 ±16	165 ±16
Selenium	EG005T	5	mg/kg	----	10	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	10	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	50	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	200	97 ±11	104 ±12	108 ±12	110 ±12	110 ±12
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	180 ±40	200 ±40	210 ±40	170 ±40	200 ±40
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	1	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	1	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	424_12_03_S	424_16_05_S	424_16_49_S	424_19_54_S	424_23_48_S
						S_Primary_ALS	S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54	24-Apr-2022 23:48
						EM2207398-013 MU	EM2207398-014 MU	EM2207398-015 MU	EM2207398-016 MU	EM2207398-017 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 424_23_55_S S_Primary_AL S	SX_OB_20220 425_04_16_S S_Primary_AL S	SX_OB_20220 425_04_18_S S_Duplicate_ ALS	SX_IB_20220 425_07_56_S S_Primary_AL S	SX_IB_20220 425_07_57_S S_Duplicate_ ALS
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
						EM2207398-018 MU	EM2207398-019 MU	EM2207398-020 MU	EM2207398-021 MU	EM2207398-022 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	7.6 ± 0.1	8.0 ± 0.1	8.0 ± 0.1	7.7 ± 0.1	7.8 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	22 ± 3	34 ± 5	36 ± 5	26 ± 4	27 ± 4
Cadmium	EG005T	1	mg/kg	----	400	<1 ..	<1 ..	<1 ..	<1 ..	1 ± 0.2
Copper	EG005T	5	mg/kg	----	20000	53 ± 6	59 ± 7	60 ± 7	57 ± 7	60 ± 7
Lead	EG005T	5	mg/kg	----	6000	<5 ..	<5 ..	<5 ..	<5 ..	6 ± 1.0
Molybdenum	EG005T	5	mg/kg	----	4000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	12000	146 ± 14	169 ± 16	167 ± 16	157 ± 15	152 ± 15
Selenium	EG005T	5	mg/kg	----	200	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	720	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Zinc	EG005T	5	mg/kg	----	140000	98 ± 11	98 ± 11	96 ± 11	102 ± 11	96 ± 11
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	300	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	10000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	40000	200 ± 40	150 ± 40	130 ± 30	180 ± 40	170 ± 40
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	16	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	240	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	50	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	424_23_55_S	425_04_16_S	425_04_18_S	425_07_56_S	425_07_57_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
						EM2207398-018 MU	EM2207398-019 MU	EM2207398-020 MU	EM2207398-021 MU	EM2207398-022 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Sampling date/time		424_23_55_S	425_04_16_S	425_04_18_S	425_07_56_S	425_07_57_S
				Lower Limit	Upper Limit	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Duplicate_ALS
						24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
						EM2207398-018 MU	EM2207398-019 MU	EM2207398-020 MU	EM2207398-021 MU	EM2207398-022 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.6 ± 0.1	8.0 ± 0.1	8.0 ± 0.1	7.7 ± 0.1	7.8 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	22 ± 3	34 ± 5	36 ± 5	26 ± 4	27 ± 4
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	<1 ..	<1 ..	1 ± 0.2
Copper	EG005T	5	mg/kg	----	5000	53 ± 6	59 ± 7	60 ± 7	57 ± 7	60 ± 7
Lead	EG005T	5	mg/kg	----	1500	<5 ..	<5 ..	<5 ..	<5 ..	6 ± 1.0
Molybdenum	EG005T	5	mg/kg	----	1000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	3000	146 ± 14	169 ± 16	167 ± 16	157 ± 15	152 ± 15
Selenium	EG005T	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	180	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	500	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	35000	98 ± 11	98 ± 11	96 ± 11	102 ± 11	96 ± 11
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	200 ± 40	150 ± 40	130 ± 30	180 ± 40	170 ± 40
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	424_23_55_S	425_04_16_S	425_04_18_S	425_07_56_S	425_07_57_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
						EM2207398-018 MU	EM2207398-019 MU	EM2207398-020 MU	EM2207398-021 MU	EM2207398-022 MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	424_23_55_S	425_04_16_S	425_04_18_S	425_07_56_S	425_07_57_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
						EM2207398-018 MU	EM2207398-019 MU	EM2207398-020 MU	EM2207398-021 MU	EM2207398-022 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.6 ± 0.1	8.0 ± 0.1	8.0 ± 0.1	7.7 ± 0.1	7.8 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	22 ± 3	34 ± 5	36 ± 5	26 ± 4	27 ± 4
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	<1 ..	<1 ..	1 ± 0.2
Copper	EG005T	5	mg/kg	----	100	53 ± 6	59 ± 7	60 ± 7	57 ± 7	60 ± 7
Lead	EG005T	5	mg/kg	----	300	<5 ..	<5 ..	<5 ..	<5 ..	6 ± 1.0
Molybdenum	EG005T	5	mg/kg	----	40	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	60	146 ± 14	169 ± 16	167 ± 16	157 ± 15	152 ± 15
Selenium	EG005T	5	mg/kg	----	10	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	10	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	50	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	200	98 ± 11	98 ± 11	96 ± 11	102 ± 11	96 ± 11
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	200 ± 40	150 ± 40	130 ± 30	180 ± 40	170 ± 40
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	1	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	1	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	424_23_55_S	425_04_16_S	425_04_18_S	425_07_56_S	425_07_57_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56	25-Apr-2022 07:57
						EM2207398-018 MU	EM2207398-019 MU	EM2207398-020 MU	EM2207398-021 MU	EM2207398-022 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 425_11_48_S S_Primary_AL S	SX_IB_20220 425_15_50_S S_Primary_AL S	SX_IB_20220 425_15_58_S S_Triplicate_ ALS	SX_IB_20220 425_19_49_S S_Primary_AL S	SX_IB_20220 426_00_02_S S_Primary_AL S
				Guideline	Guideline	25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
				Lower Limit	Upper Limit	EM2207398-023 MU	EM2207398-024 MU	EM2207398-025 MU	EM2207398-026 MU	EM2207398-027 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	7.6 ± 0.1	7.7 ± 0.1	7.7 ± 0.1	7.6 ± 0.1	8.0 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	28 ± 4	24 ± 4	24 ± 4	29 ± 4	18 ± 3
Cadmium	EG005T	1	mg/kg	----	400	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	20000	58 ± 7	55 ± 7	47 ± 6	62 ± 8	53 ± 6
Lead	EG005T	5	mg/kg	----	6000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	4000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	12000	141 ± 14	159 ± 16	120 ± 12	145 ± 14	137 ± 14
Selenium	EG005T	5	mg/kg	----	200	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	720	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Zinc	EG005T	5	mg/kg	----	140000	106 ± 12	99 ± 11	80 ± 9	95 ± 10	88 ± 10
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	300	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	10000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	40000	180 ± 40	200 ± 40	200 ± 40	160 ± 40	230 ± 40
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	16	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	240	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	50	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 425_11_48_S S_Primary_AL S	SX_IB_20220 425_15_50_S S_Primary_AL S	SX_IB_20220 425_15_58_S S_Triplicate_ ALS	SX_IB_20220 425_19_49_S S_Primary_AL S	SX_IB_20220 426_00_02_S S_Primary_AL S
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
						EM2207398-023 MU	EM2207398-024 MU	EM2207398-025 MU	EM2207398-026 MU	EM2207398-027 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 425_11_48_S S_Primary_AL S	SX_IB_20220 425_15_50_S S_Primary_AL S	SX_IB_20220 425_15_58_S S_Triplicate_ ALS	SX_IB_20220 425_19_49_S S_Primary_AL S	SX_IB_20220 426_00_02_S S_Primary_AL S
				Lower Limit	Upper Limit	25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
				EM2207398-023 MU	EM2207398-024 MU	EM2207398-025 MU	EM2207398-026 MU	EM2207398-027 MU		
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.6 ±0.1	7.7 ±0.1	7.7 ±0.1	7.6 ±0.1	8.0 ±0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	28 ±4	24 ±4	24 ±4	29 ±4	18 ±3
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	5000	58 ±7	55 ±7	47 ±6	62 ±8	53 ±6
Lead	EG005T	5	mg/kg	----	1500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	1000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	3000	141 ±14	159 ±16	120 ±12	145 ±14	137 ±14
Selenium	EG005T	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	180	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	500	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	35000	106 ±12	99 ±11	80 ±9	95 ±10	88 ±10
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	180 ±40	200 ±40	200 ±40	160 ±40	230 ±40
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	425_11_48_S	425_15_50_S	425_15_58_S	425_19_49_S	426_00_02_S
						S_Primary_ALS	S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
						EM2207398-023 MU	EM2207398-024 MU	EM2207398-025 MU	EM2207398-026 MU	EM2207398-027 MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 425_11_48_S S_Primary_AL S	SX_IB_20220 425_15_50_S S_Primary_AL S	SX_IB_20220 425_15_58_S S_Triplicate_ ALS	SX_IB_20220 425_19_49_S S_Primary_AL S	SX_IB_20220 426_00_02_S S_Primary_AL S
				Lower Limit	Upper Limit	25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
				EM2207398-023 MU	EM2207398-024 MU	EM2207398-025 MU	EM2207398-026 MU	EM2207398-027 MU		
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.6 ±0.1	7.7 ±0.1	7.7 ±0.1	7.6 ±0.1	8.0 ±0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	28 ±4	24 ±4	24 ±4	29 ±4	18 ±3
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	100	58 ±7	55 ±7	47 ±6	62 ±8	53 ±6
Lead	EG005T	5	mg/kg	----	300	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	40	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	60	141 ±14	159 ±16	120 ±12	145 ±14	137 ±14
Selenium	EG005T	5	mg/kg	----	10	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	10	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	50	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	200	106 ±12	99 ±11	80 ±9	95 ±10	88 ±10
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	180 ±40	200 ±40	200 ±40	160 ±40	230 ±40
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	1	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	1	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 425_11_48_S S_Primary_AL S	SX_IB_20220 425_15_50_S S_Primary_AL S	SX_IB_20220 425_15_58_S S_Triplicate_ ALS	SX_IB_20220 425_19_49_S S_Primary_AL S	SX_IB_20220 426_00_02_S S_Primary_AL S
				Guideline	Guideline	25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49	26-Apr-2022 00:02
				Lower Limit	Upper Limit	EM2207398-023 MU	EM2207398-024 MU	EM2207398-025 MU	EM2207398-026 MU	EM2207398-027 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 426_03_47_S S_Primary_AL S	SX_OB_20220 423_08_10_S S_Primary_AL S	SX_OB_20220 423_08_12_S S_Duplicate_ ALS	SX_OB_20220 423_12_11_S B_Primary_AL S	SX_OB_20220 423_16_03_S S_Triplicate_ ALS
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
						EM2207398-028 MU	EM2207398-029 MU	EM2207398-030 MU	EM2207398-031 MU	EM2207398-032 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	8.2 ± 0.1	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	23 ± 3	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	400	<1 --	----	----	----	----
Copper	EG005T	5	mg/kg	----	20000	62 ± 8	----	----	----	----
Lead	EG005T	5	mg/kg	----	6000	<5 --	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	4000	<5 --	----	----	----	----
Nickel	EG005T	5	mg/kg	----	12000	163 ± 16	----	----	----	----
Selenium	EG005T	5	mg/kg	----	200	<5 --	----	----	----	----
Silver	EG005T	2	mg/kg	----	720	<2 --	----	----	----	----
Zinc	EG005T	5	mg/kg	----	140000	107 ± 12	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	300	<0.1 --	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000	<1.0 --	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	10000	<5 --	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	40000	230 ± 40	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	16	<0.2 --	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	240	<0.5 --	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8	<0.50 --	----	----	----	----
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11	<0.50 --	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	50	<0.50 --	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320	<1.00 --	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20 --	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	426_03_47_S	423_08_10_S	423_08_12_S	423_12_11_S	423_16_03_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	B_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
						EM2207398-028 MU	EM2207398-029 MU	EM2207398-030 MU	EM2207398-031 MU	EM2207398-032 MU
EP075B: Polynuclear Aromatic Hydrocarbons - Continued										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20	<0.5	--	----	----	----
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<0.5	--	----	----	----
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8	<0.05	--	----	----	----
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<0.30	--	----	----	----
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05	--	----	----	----
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<0.10	--	----	----	----
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50	<0.03	--	----	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20	--	----	----	----
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<50	--	----	----	----



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	426_03_47_S	423_08_10_S	423_08_12_S	423_12_11_S	423_16_03_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	B_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
						EM2207398-028 MU	EM2207398-029 MU	EM2207398-030 MU	EM2207398-031 MU	EM2207398-032 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	8.2 ± 0.1	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	23 ± 3	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	100	<1 --	----	----	----	----
Copper	EG005T	5	mg/kg	----	5000	62 ± 8	----	----	----	----
Lead	EG005T	5	mg/kg	----	1500	<5 --	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	1000	<5 --	----	----	----	----
Nickel	EG005T	5	mg/kg	----	3000	163 ± 16	----	----	----	----
Selenium	EG005T	5	mg/kg	----	50	<5 --	----	----	----	----
Silver	EG005T	2	mg/kg	----	180	<2 --	----	----	----	----
Tin	EG005T	10	mg/kg	----	500	<10 --	----	----	----	----
Zinc	EG005T	5	mg/kg	----	35000	107 ± 12	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 --	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	<1.0 --	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 --	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	230 ± 40	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 --	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 --	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 --	----	----	----	----
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 --	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 --	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 --	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 --	----	----	----	----



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	
				Sampling date/time	Guideline	Guideline	426_03_47_S	423_08_10_S	423_08_12_S	423_12_11_S	423_16_03_S
							S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	B_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03	
						EM2207398-028 MU	EM2207398-029 MU	EM2207398-030 MU	EM2207398-031 MU	EM2207398-032 MU	
EP075B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5	--	----	----	----	
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5	--	----	----	----	
EP075I: Organochlorine Pesticides											
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05	--	----	----	----	
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30	--	----	----	----	
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05	--	----	----	----	
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10	--	----	----	----	
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03	--	----	----	----	
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20	--	----	----	----	
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50	--	----	----	----	



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	426_03_47_S	423_08_10_S	423_08_12_S	423_12_11_S	423_16_03_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	B_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
						EM2207398-028 MU	EM2207398-029 MU	EM2207398-030 MU	EM2207398-031 MU	EM2207398-032 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	8.2 ± 0.1	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	23 ± 3	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	3	<1 --	----	----	----	----
Copper	EG005T	5	mg/kg	----	100	62 ± 8	----	----	----	----
Lead	EG005T	5	mg/kg	----	300	<5 --	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	40	<5 --	----	----	----	----
Nickel	EG005T	5	mg/kg	----	60	163 ± 16	----	----	----	----
Selenium	EG005T	5	mg/kg	----	10	<5 --	----	----	----	----
Silver	EG005T	2	mg/kg	----	10	<2 --	----	----	----	----
Tin	EG005T	10	mg/kg	----	50	<10 --	----	----	----	----
Zinc	EG005T	5	mg/kg	----	200	107 ± 12	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 --	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	<1.0 --	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 --	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	230 ± 40	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<0.1 --	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	1	<0.2 --	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<0.5 --	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	1	<0.50 --	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<1.00 --	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20 --	----	----	----	----



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	426_03_47_S	423_08_10_S	423_08_12_S	423_12_11_S	423_16_03_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	B_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	26-Apr-2022 03:47	23-Apr-2022 08:10	23-Apr-2022 08:12	23-Apr-2022 12:11	23-Apr-2022 16:03
						EM2207398-028 MU	EM2207398-029 MU	EM2207398-030 MU	EM2207398-031 MU	EM2207398-032 MU
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5	----	----	----	----
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5	----	----	----	----
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20	----	----	----	----
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50	----	----	----	----



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_OB_20220
				Guideline	Guideline	423_16_04_S	423_20_07_S	424_00_14_S	424_04_08_S	424_08_05_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	23-Apr-2022 16:04	23-Apr-2022 20:07	24-Apr-2022 00:14	24-Apr-2022 04:08	24-Apr-2022 08:06
						EM2207398-033 MU	EM2207398-034 MU	EM2207398-035 MU	EM2207398-036 MU	EM2207398-037 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	----	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	----	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220 424_08_06_S S_Duplicate_ ALS	SX_IB_20220 424_12_03_S S_Primary_AL S	SX_IB_20220 424_16_05_S S_Primary_AL S	SX_IB_20220 424_16_49_S S_Triplicate_ ALS	SX_IB_20220 424_19_54_S S_Primary_AL S
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						24-Apr-2022 08:07	24-Apr-2022 12:04	24-Apr-2022 16:06	24-Apr-2022 16:50	24-Apr-2022 19:54
						EM2207398-038 MU	EM2207398-039 MU	EM2207398-040 MU	EM2207398-041 MU	EM2207398-042 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	----	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	----	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 424_23_48_S S_Primary_AL S	SX_IB_20220 424_23_55_S S_Primary_AL S	SX_OB_20220 425_04_16_S S_Primary_AL S	SX_OB_20220 425_04_18_S S_Duplicate_ ALS	SX_IB_20220 425_07_56_S S_Primary_AL S
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						24-Apr-2022 23:48	24-Apr-2022 23:55	25-Apr-2022 04:16	25-Apr-2022 04:18	25-Apr-2022 07:56
						EM2207398-043 MU	EM2207398-044 MU	EM2207398-045 MU	EM2207398-046 MU	EM2207398-047 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	----	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	----	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 425_07_57_S S_Duplicate_ ALS	SX_IB_20220 425_11_48_S S_Primary_AL S	SX_IB_20220 425_15_50_S S_Primary_AL S	SX_IB_20220 425_15_58_S S_Triplicate_ ALS	SX_IB_20220 425_19_49_S S_Primary_AL S
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						25-Apr-2022 07:57	25-Apr-2022 11:48	25-Apr-2022 15:50	25-Apr-2022 15:58	25-Apr-2022 19:49
						EM2207398-048 MU	EM2207398-049 MU	EM2207398-050 MU	EM2207398-051 MU	EM2207398-052 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	----	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	----	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		Guideline Lower Limit	Guideline Upper Limit	SX_IB_20220 426_00_02_S S_Primary_AL S	SX_IB_20220 426_03_47_S S_Primary_AL S	----	----	----
				Sampling date/time	26-Apr-2022 00:02			26-Apr-2022 03:47	----	----	----	
EA001: pH in soil using 0.01M CaCl extract												
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES												
Arsenic	EG005T	5	mg/kg	----	----	----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----	----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----	----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----	----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----	----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----	----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----	----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----	----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----	----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS												
Mercury	EG035T	0.1	mg/kg	----	----	----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)												
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser												
Total Cyanide	EK026SF	5	mg/kg	----	----	----	----	----	----	----	----	----
EK040T: Fluoride Total												
Fluoride	EK040T	100	mg/kg	----	----	----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons												
Benzene	EP074-UT	0.2	mg/kg	----	----	----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds												
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	----	----	----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)												
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)												
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	----	----	----	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons												



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		Guideline	Guideline	SX_IB_20220 426_00_02_S S_Primary_AL S	SX_IB_20220 426_03_47_S S_Primary_AL S	----	----	----
				Lower Limit	Upper Limit							
				Sampling date/time								
								26-Apr-2022 00:02	26-Apr-2022 03:47			
								EM2207398-053 MU	EM2207398-054 MU			
EP075B: Polynuclear Aromatic Hydrocarbons												
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	----							
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	----							
EP075I: Organochlorine Pesticides												
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	----							
EP080/071: Total Petroleum Hydrocarbons												
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	----							
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	----							

QUALITY CONTROL REPORT

Work Order	: EM2207398	Page	: 1 of 62
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: CRAIG TRIMBUR	Contact	: Josh Alexander
Address	: D1.1 63-85 TURNER STREET PORT MELBOURNE 3207	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61-3-8549 9600
Project	: JC0927	Date Samples Received	: 26-Apr-2022
Order number	: ----	Date Analysis Commenced	: 26-Apr-2022
C-O-C number	: 20220426041206-ALS-21	Issue Date	: 29-Apr-2022
Sampler	: Brandon + TB - Agon, LR + HK - EP Risk		
Site	: 20220426041206-ALS-21		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 54		
No. of samples analysed	: 54		



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4305487)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	87	91	4.4	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	142	149	4.6	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	34	34	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	49	51	3.2	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	83	92	10.9	0% - 50%		
EM2207398-012	SX_OB_20220424_08_06_ SS_Duplicate_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	107	103	4.1	0% - 20%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	159	152	4.7	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	41	31	26.5	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	58	51	12.9	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	11	71.9	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	103	86	16.9	0% - 20%		



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4305489)									
EM2207398-023	SX_IB_20220425_11_48_S S_Primary_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	103	93	10.2	0% - 20%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	141	131	7.2	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	28	27	4.1	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	58	51	12.9	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	106	88	18.8	0% - 20%		
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4308102)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.8	7.8	0.0	0% - 20%
EM2207398-012	SX_OB_20220424_08_06_ SS_Duplicate_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	8.1	8.2	0.0	0% - 20%
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4308103)									
EM2207398-023	SX_IB_20220425_11_48_S S_Primary_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.6	7.6	0.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4306097)									
EM2207302-013	Anonymous	EA055: Moisture Content	----	0.1	%	32.3	32.4	0.4	0% - 20%
EM2207398-011	SX_OB_20220424_08_05_ SS_Primary_ALS	EA055: Moisture Content	----	0.1	%	29.7	31.2	4.9	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4306098)									
EM2207398-021	SX_IB_20220425_07_56_S S_Primary_ALS	EA055: Moisture Content	----	0.1	%	31.8	31.8	0.0	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4305486)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2207398-012	SX_OB_20220424_08_06_ SS_Duplicate_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4305488)									
EM2207398-023	SX_IB_20220425_11_48_S S_Primary_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4306054)									
EM2207302-013	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EM2207398-010	SX_IB_20220424_04_08_S S_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit

Page : 4 of 62
 Work Order : EM2207398
 Client : AGON ENVIRONMENTAL PTY LTD
 Project : JC0927



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4306057)									
EM2207398-021	SX_IB_20220425_07_56_S S_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4306037)									
EM2207302-013	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EM2207398-010	SX_IB_20220424_04_08_S S_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4306038)									
EM2207398-021	SX_IB_20220425_07_56_S S_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EK040T: Fluoride Total (QC Lot: 4305859)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	200	140	37.6	No Limit
EM2207398-012	SX_OB_20220424_08_06_ SS_Duplicate_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	140	130	0.0	No Limit
EK040T: Fluoride Total (QC Lot: 4305860)									
EM2207398-023	SX_IB_20220425_11_48_S S_Primary_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	180	170	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4305546)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4305550)									
EM2207302-001	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2207302-013	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4304299)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4304299) - continued									
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4304300)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2207398-026	SX_IB_20220425_19_49_S S_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4304299)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4304300)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM2207398-026	SX_IB_20220425_19_49_S S_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4304299)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074I: Volatile Halogenated Compounds (QC Lot: 4304299) - continued									
EM2207398-001	SX_OB_20220423_08_10_S SS_Primary_ALS	EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit		
EP074I: Volatile Halogenated Compounds (QC Lot: 4304300)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074I: Volatile Halogenated Compounds (QC Lot: 4304300) - continued									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit
		EM2207398-026	SX_IB_20220425_19_49_S S_Primary_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50
EP074-UT: cis-1.2-Dichloroethene	156-59-2			0.01	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1.1.1-Trichloroethane	71-55-6			0.01	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Carbon Tetrachloride	56-23-5			0.01	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6			0.01	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1.2.4-Trichlorobenzene	120-82-1			0.01	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Vinyl chloride	75-01-4			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: trans-1.2-Dichloroethene	156-60-5			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Chloroform	67-66-3			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1.2-Dichloroethane	107-06-2			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Trichloroethene	79-01-6			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Tetrachloroethene	127-18-4			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Hexachlorobutadiene	87-68-3			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Chlorobenzene	108-90-7			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1.4-Dichlorobenzene	106-46-7			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1.2-Dichlorobenzene	95-50-1			0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1.1.2-Trichloroethane	79-00-5			0.04	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit		
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4305545)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4305545) - continued									
EM2207398-001	SX_OB_20220423_08_10_SS_Primary_ALS	EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		0-2							
EM2207398-013	SX_IB_20220424_12_03_SS_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		0-2							
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit		
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4305552)									
EM2207302-001	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		0-2							
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit		
EM2207302-013	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		0-2							
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit		
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4305545)									



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4305545) - continued									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit		
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit		
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4305552)									
EM2207302-001	Anonymous	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit		
EM2207302-013	Anonymous	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit		



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4305552) - continued									
EM2207302-013	Anonymous	EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4305545)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit		
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit		
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4305552)									
EM2207302-001	Anonymous	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4305552) - continued									
EM2207302-001	Anonymous	EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenzo(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit
EM2207302-013	Anonymous	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenzo(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit		
EP075I: Organochlorine Pesticides (QC Lot: 4305545)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075I: Organochlorine Pesticides (QC Lot: 4305545) - continued									
EM2207398-001	SX_OB_20220423_08_10_SS_Primary_ALS	EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S_S_Primary_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075I: Organochlorine Pesticides (QC Lot: 4305552)									
EM2207302-001	Anonymous	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075I: Organochlorine Pesticides (QC Lot: 4305552) - continued									
EM2207302-001	Anonymous	EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EM2207302-013	Anonymous	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4304299)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4304299) - continued									
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4304300)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EM2207398-026	SX_IB_20220425_19_49_S S_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4305547)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4305551)									
EM2207302-001	Anonymous	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2207302-013	Anonymous	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4304299)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4304300)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EM2207398-026	SX_IB_20220425_19_49_S S_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4304300) - continued									
EM2207398-026	SX_IB_20220425_19_49_S S_Primary_ALS	EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4305547)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4305551)									
EM2207302-001	Anonymous	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2207302-013	Anonymous	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4305014)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4305037)									
EM2207227-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4305037) - continued									
EM2207227-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2207227-009	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4307774)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4305014)									
EM2207398-001	SX_OB_20220423_08_10_10 SS_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4305014) - continued									
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4305037)									
EM2207227-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit		
EM2207227-009	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4307774)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit		



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4305014)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4305037)									
EM2207227-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4305037) - continued									
EM2207227-001	Anonymous	EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2207227-009	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4307774)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4305014)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4305014) - continued									
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4305037)									
EM2207227-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2207227-009	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4307774)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4305014)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231P: PFAS Sums (QC Lot: 4305014) - continued									
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4305037)									
EM2207227-001	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
EM2207227-009	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4307774)									
EM2207398-016	SX_IB_20220424_19_54_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit

Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4306840)									
EM2206991-015	Anonymous	EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4307919)									
EM2207398-001	SX_OB_20220423_08_10_SS_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4307919) - continued									
EM2207398-001	SX_OB_20220423_08_10_SS_Primary_ALS	EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S_S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4307929)									
EM2207398-022	SX_IB_20220425_07_57_S_S_Duplicate_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4308957)									
EM2207398-029	SX_OB_20220423_08_10_SS_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2207398-035	SX_OB_20220424_00_14_SS_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4308976)									
EM2207398-048	SX_IB_20220425_07_57_S_S_Duplicate_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4311146)									
EM2207398-052	SX_IB_20220425_19_49_S S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4311172)									
EM2207477-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4306840)									
EM2206991-015	Anonymous	EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.10	<0.10	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4307919)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4307919) - continued									
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4307929)									
EM2207398-022	SX_IB_20220425_07_57_S S_Duplicate_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4308957)									
EM2207398-029	SX_OB_20220423_08_10_ SS_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
EM2207398-035	SX_OB_20220424_00_14_ SS_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit



Sub-Matrix: WATER

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4308957) - continued									
EM2207398-035	SX_OB_20220424_00_14_SS_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4308976)									
EM2207398-048	SX_IB_20220425_07_57_S_S_Duplicate_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4311146)									
EM2207398-052	SX_IB_20220425_19_49_S_S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4311172)									
EM2207477-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 431172) - continued									
EM2207477-001	Anonymous	EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4306840)									
EM2206991-015	Anonymous	EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4307919)									
EM2207398-001	SX_OB_20220423_08_10_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S_S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4307919) - continued									
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4307929)									
EM2207398-022	SX_IB_20220425_07_57_S S_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4308957)									
EM2207398-029	SX_OB_20220423_08_10_ SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4308957) - continued									
EM2207398-029	SX_OB_20220423_08_10_SS_Primary_ALS	EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207398-035	SX_OB_20220424_00_14_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4308976)									
EM2207398-048	SX_IB_20220425_07_57_S_S_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4311146)									
EM2207398-052	SX_IB_20220425_19_49_S_S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4311146) - continued									
EM2207398-052	SX_IB_20220425_19_49_S S_Primary_ALS	EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4311172)									
EM2207477-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4306840)									
EM2206991-015	Anonymous	EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4307919)									
EM2207398-001	SX_OB_20220423_08_10_ SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4307919) - continued									
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4307929)									
EM2207398-022	SX_IB_20220425_07_57_S S_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4308957)									
EM2207398-029	SX_OB_20220423_08_10_ SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207398-035	SX_OB_20220424_00_14_ SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4308976)									
EM2207398-048	SX_IB_20220425_07_57_S S_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4311146)									
EM2207398-052	SX_IB_20220425_19_49_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4311172)									
EM2207477-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4306840)									
EM2206991-015	Anonymous	EP231X-INJ: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X-INJ: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X-INJ: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4307919)									
EM2207398-001	SX_OB_20220423_08_10_SS_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EM2207398-013	SX_IB_20220424_12_03_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4307929)									
EM2207398-022	SX_IB_20220425_07_57_S S_Duplicate_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4308957)									



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231P: PFAS Sums (QC Lot: 4308957) - continued									
EM2207398-029	SX_OB_20220423_08_10_SS_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EM2207398-035	SX_OB_20220424_00_14_SS_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4308976)									
EM2207398-048	SX_IB_20220425_07_57_S_S_Duplicate_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4311146)									
EM2207398-052	SX_IB_20220425_19_49_S_S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4311172)									
EM2207477-001	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4305487)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	93.5	70.0	130	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	71.8	50.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	100	70.0	130	
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	90.2	70.0	130	
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	89.1	70.0	130	
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	77.9	70.0	130	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	99.2	70.0	130	
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----	
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.9 mg/kg	81.1	70.0	130	
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	83.1	70.0	130	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	72.5	70.0	130	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4305489)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	94.8	70.0	130	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	74.4	50.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	102	70.0	130	
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	91.7	70.0	130	
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	89.5	70.0	130	
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	79.4	70.0	130	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	101	70.0	130	
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----	
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.9 mg/kg	83.3	70.0	130	
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	87.0	70.0	130	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	73.1	70.0	130	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4306585)									
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.1	----	----	----	----	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4306586)									
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.1	----	----	----	----	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4308235)									
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.1	----	----	----	----	
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4308102)									
EA001: pH (CaCl ₂)	----	----	pH Unit	----	4 pH Unit	100	98.8	101	
				----	7 pH Unit	100	99.3	101	
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4308103)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4308103) - continued									
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	100	98.8	101	
				----	7 pH Unit	100	99.3	101	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4305486)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	89.1	70.0	130	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4305488)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	85.9	70.0	130	
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4306054)									
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	76.9	70.0	130	
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4306057)									
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	81.2	70.0	130	
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4306037)									
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	91.6	70.0	130	
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4306038)									
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	108	70.0	130	
EK040T: Fluoride Total (QCLot: 4305859)									
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	88.6	75.2	110	
EK040T: Fluoride Total (QCLot: 4305860)									
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	84.9	75.2	110	
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4305546)									
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	103	67.4	136	
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4305550)									
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	91.8	67.4	136	
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4304299)									
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	100	69.2	116	
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	92.8	67.7	116	
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	91.4	66.6	115	
EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4.2 mg/kg	88.6	65.2	112	
	106-42-3								
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	90.4	69.4	111	
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	88.9	68.4	110	
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4304300)									
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	103	69.2	116	
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	96.1	67.7	116	
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	94.4	66.6	115	
EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4.2 mg/kg	91.5	65.2	112	
	106-42-3								
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	93.2	69.4	111	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4304300) - continued									
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	91.5	68.4	110	
EP074H: Naphthalene (QCLot: 4304299)									
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	97.3	72.3	114	
EP074H: Naphthalene (QCLot: 4304300)									
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	91.3	72.3	114	
EP074I: Volatile Halogenated Compounds (QCLot: 4304299)									
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	123	47.0	138	
EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	110	57.6	125	
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	101	72.3	115	
EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	107	60.5	122	
EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	99.8	70.3	112	
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	98.4	66.6	115	
EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	103	64.4	122	
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	102	58.4	127	
EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	110	72.9	114	
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	98.1	64.7	115	
EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	97.6	72.6	116	
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	92.4	60.0	119	
EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	93.6	71.8	116	
EP074-UT: 1,1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	95.5	66.1	116	
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	72.8	39.8	128	
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	94.4	70.3	113	
EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	96.3	62.6	113	
EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	95.6	70.8	110	
EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	88.0	48.4	120	
EP074I: Volatile Halogenated Compounds (QCLot: 4304300)									
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	126	47.0	138	
EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	110	57.6	125	
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	104	72.3	115	
EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	109	60.5	122	
EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	102	70.3	112	
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	102	66.6	115	
EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	104	64.4	122	
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	103	58.4	127	
EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	112	72.9	114	
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	99.2	64.7	115	
EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	100	72.6	116	
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	97.4	60.0	119	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP074I: Volatile Halogenated Compounds (QCLot: 4304300) - continued								
EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	100	71.8	116
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	98.2	66.1	116
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	81.6	39.8	128
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	99.2	70.3	113
EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	98.8	62.6	113
EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	99.2	70.8	110
EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	89.0	48.4	120
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4305545)								
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	102	74.5	126
EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	97.6	72.7	126
EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	98.2	73.5	132
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	104	72.8	128
EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	114	73.3	134
EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	110	72.4	128
EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	114	69.4	126
EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/5 8-90-2	0.05	mg/kg	<0.05	4 mg/kg	114	71.9	128
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	103	54.4	135
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4305552)								
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	85.1	74.5	126
EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	90.3	72.7	126
EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	91.4	73.5	132
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	78.9	72.8	128
EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	101	73.3	134
EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	97.2	72.4	128
EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	98.5	69.4	126
EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/5 8-90-2	0.05	mg/kg	<0.05	4 mg/kg	104	71.9	128
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	89.1	54.4	135
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4305545)								
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	104	71.5	130
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	104	73.4	129
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	102	74.3	129
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	97.9	70.9	133
EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	96.8	71.8	132
EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	145	41.0	156
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	125	65.3	134
EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	# 147	43.6	128



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4305545) - continued									
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	110	62.0	128	
EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	126	34.5	137	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4305552)									
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	82.1	71.5	130	
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	91.3	73.4	129	
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	86.7	74.3	129	
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	87.9	70.9	133	
EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	85.1	71.8	132	
EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	87.0	41.0	156	
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	107	65.3	134	
EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	118	43.6	128	
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	95.1	62.0	128	
EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	91.2	34.5	137	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4305545)									
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	99.1	73.0	131	
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	114	76.3	130	
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	113	72.0	135	
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	116	74.4	131	
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	104	73.3	130	
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	104	78.4	127	
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	108	75.3	132	
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	109	75.4	130	
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	107	69.6	133	
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	107	75.0	133	
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	4 mg/kg	107	75.8	133	
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	107	65.1	130	
EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	110	72.1	134	
EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	109	72.9	135	
EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	110	71.3	134	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4305552)									
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	88.9	73.0	131	
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	106	76.3	130	
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	102	72.0	135	
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	107	74.4	131	
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	96.4	73.3	130	
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	98.1	78.4	127	
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	91.7	75.3	132	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4305552) - continued									
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	94.0	75.4	130	
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	96.7	69.6	133	
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	98.4	75.0	133	
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	4 mg/kg	95.7	75.8	133	
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	95.4	65.1	130	
EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	96.0	72.1	134	
EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	97.4	72.9	135	
EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	97.0	71.3	134	
EP075I: Organochlorine Pesticides (QCLot: 4305545)									
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	103	71.0	129	
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	104	74.8	126	
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	107	75.7	130	
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	105	70.8	130	
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	108	76.5	134	
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	105	75.5	131	
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	105	76.8	130	
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	108	73.6	130	
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	108	75.0	133	
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	108	75.3	131	
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	110	69.4	134	
EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	108	71.0	132	
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	102	78.0	133	
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	121	69.0	143	
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	105	55.7	145	
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	105	71.4	135	
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	106	74.8	134	
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	108	70.2	135	
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	106	77.7	133	
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	109	63.6	135	
EP075I: Organochlorine Pesticides (QCLot: 4305552)									
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	99.6	71.0	129	
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	93.6	74.8	126	
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	96.8	75.7	130	
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	102	70.8	130	
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	108	76.5	134	
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	94.3	75.5	131	
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	97.9	76.8	130	
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	94.5	73.6	130	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP075I: Organochlorine Pesticides (QCLot: 4305552) - continued								
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	94.5	75.0	133
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	95.6	75.3	131
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	101	69.4	134
EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	103	71.0	132
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	101	78.0	133
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	84.6	69.0	143
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	137	55.7	145
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	103	71.4	135
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	101	74.8	134
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	100	70.2	135
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	99.6	77.7	133
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	99.4	63.6	135
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4304299)								
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	97.5	61.1	119
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4304300)								
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	97.7	61.1	119
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4305547)								
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	680 mg/kg	87.6	74.4	129
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	2830 mg/kg	98.9	81.0	123
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1340 mg/kg	100	81.8	121
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	4850 mg/kg	97.7	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4305551)								
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	680 mg/kg	82.6	74.4	129
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	2830 mg/kg	92.8	81.0	123
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1340 mg/kg	96.6	81.8	121
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	4850 mg/kg	92.4	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4304299)								
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	95.5	59.9	119
EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----
	X							
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4304300)								
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	95.9	59.9	119
EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----
	X							
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4305547)								
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	980 mg/kg	96.1	75.4	132
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	3210 mg/kg	117	80.8	120
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	270 mg/kg	80.1	73.3	136



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4305547) - continued									
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	4460 mg/kg	110	70.0	130	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4305551)									
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	980 mg/kg	89.8	75.4	132	
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	3210 mg/kg	116	80.8	120	
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	270 mg/kg	80.6	73.3	136	
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	4460 mg/kg	108	70.0	130	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4305014)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	88.2	72.0	128	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	93.2	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	75.7	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	104	70.0	132	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	84.4	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	86.6	59.0	134	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4305037)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	95.8	72.0	128	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	104	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	74.1	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	106	70.0	132	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	83.4	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	102	59.0	134	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4307774)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	99.8	72.0	128	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	109	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	81.5	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	110	70.0	132	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	99.1	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	95.7	59.0	134	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4305014)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	90.7	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.8	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.0	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.2	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.0	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.6	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.2	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.2	64.0	136	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.4	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.8	66.0	139	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4305014) - continued									
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	92.4	69.0	133	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4305037)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	87.3	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.4	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.6	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.4	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.2	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.9	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	64.0	136	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.0	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.9	66.0	139	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	110	69.0	133	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4307774)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	91.3	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.6	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.8	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.9	64.0	136	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.6	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.2	66.0	139	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.2	69.0	133	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4305014)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.0	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	93.7	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	90.4	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	90.4	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	92.9	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.1	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.7	61.0	139	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4305037)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4305037) - continued									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.8	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	87.0	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	96.7	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	97.2	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	82.0	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	61.0	139	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4307774)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.4	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	110	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	105	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	104	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	104	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.8	61.0	139	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4305014)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	92.1	62.0	145	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	91.4	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	100	65.0	137	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	99.4	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4305037)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	87.7	62.0	145	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	97.0	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	110	65.0	137	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	120	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4307774)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	104	62.0	145	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	103	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	104	65.0	137	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	117	70.0	130	
EP231P: PFAS Sums (QCLot: 4305014)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
EP231P: PFAS Sums (QCLot: 4305014) - continued									
EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231P: PFAS Sums (QCLot: 4305037)									
EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231P: PFAS Sums (QCLot: 4307774)									
EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	

Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4306840)									
EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.444 µg/L	90.4	72.0	130	
EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.47 µg/L	97.6	71.0	127	
EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.457 µg/L	94.4	68.0	131	
EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.477 µg/L	104	69.0	134	
EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.465 µg/L	87.8	65.0	140	
EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.482 µg/L	87.7	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4307919)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	104	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	104	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	101	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	98.5	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	92.7	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.5	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4307929)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	86.3	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	107	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	109	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	112	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	119	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	119	53.0	142	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4308957)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	99.2	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	104	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	97.8	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	96.4	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	96.9	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.5	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4308976)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	108	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	99.9	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	97.1	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	106	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	92.7	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	102	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4311146)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	91.4	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	110	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	108	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	132	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	132	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	130	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4311172)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	109	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	111	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	100	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	107	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	93.9	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	102	53.0	142	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4306840)									
EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.10	2.5 µg/L	95.5	73.0	129	
EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.5 µg/L	98.5	72.0	129	
EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.5 µg/L	92.3	72.0	129	
EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.5 µg/L	93.0	72.0	130	
EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.5 µg/L	94.5	71.0	133	
EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.5 µg/L	101	69.0	130	
EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.5 µg/L	93.6	71.0	129	
EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.5 µg/L	98.2	69.0	133	
EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.5 µg/L	95.2	72.0	134	
EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.5 µg/L	90.1	65.0	144	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4306840) - continued									
EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	1.25 µg/L	104	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4307919)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	93.5	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	92.4	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	100	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	103	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	98.0	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	100	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	103	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	105	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	99.5	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	97.6	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	101	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4307929)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	91.8	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	104	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	82.6	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	102	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	101	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	93.0	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	86.5	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	101	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	101	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	89.4	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	109	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4308957)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	94.9	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	103	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	100	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	104	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	98.4	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	103	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	101	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	101	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	102	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	97.1	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	103	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4308976)									



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4308976) - continued									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	93.2	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	95.3	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	104	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	100	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	100	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	102	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	109	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	101	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	104	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	102	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	118	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4311146)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	87.7	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	109	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	81.9	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	104	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	105	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	94.7	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	84.5	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	102	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	102	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	90.8	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	105	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4311172)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	92.5	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	91.3	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	96.9	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	97.7	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	93.4	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	94.7	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	119	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	113	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	104	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	96.1	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	113	71.0	132	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4306840)									
EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.5 µg/L	93.7	67.0	137	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4306840) - continued									
EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	1.25 µg/L	105	68.0	141	
EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	1.25 µg/L	101	70.0	130	
EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	1.25 µg/L	91.1	70.0	130	
EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	1.25 µg/L	95.1	70.0	130	
EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.5 µg/L	110	65.0	136	
EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.5 µg/L	92.7	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4307919)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	102	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	110	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	112	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	104	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	96.0	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	111	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	101	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4307929)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	97.3	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	100	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	108	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	103	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	89.8	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	104	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	94.0	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4308957)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	97.5	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	116	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	103	70.0	130	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4308957) - continued									
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	102	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	104	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	105	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	98.5	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4308976)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	106	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	107	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	96.8	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	92.6	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	94.1	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	119	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	111	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4311146)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	97.1	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	105	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	124	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	109	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	99.2	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	124	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	101	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4311172)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	100.0	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	111	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	102	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	96.2	70.0	130	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4311172) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	95.9	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	108	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	116	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4306840)								
EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.469 µg/L	97.0	63.0	143
EP231X-INJ: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.476 µg/L	110	64.0	140
EP231X-INJ: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.48 µg/L	107	67.0	138
EP231X-INJ: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.483 µg/L	95.5	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4307919)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	104	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	105	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	106	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	100	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4307929)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	97.1	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	102	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	116	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	85.1	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4308957)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	104	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	109	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	116	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	98.5	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4308976)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	102	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	118	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	112	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	85.2	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4311146)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	99.7	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	115	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	108	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	90.6	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4311172)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	104	63.0	143



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4311172) - continued								
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	103	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	111	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	95.7	70.0	130
EP231P: PFAS Sums (QCLot: 4306840)								
EP231X-INJ: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X-INJ: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X-INJ: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4307919)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4307929)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4308957)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4308976)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4311146)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4311172)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----



Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	Spike Recovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4305487)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	99.0	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	92.6	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	104	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	83.6	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	90.5	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	93.4	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	84.8	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4305489)							
EM2207398-024	SX_IB_20220425_15_50_SS_Primary_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	88.2	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	95.5	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	98.5	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	101	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	93.6	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	90.1	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	91.5	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4305486)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	100	76.0	116
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4305488)							
EM2207398-024	SX_IB_20220425_15_50_SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	97.0	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4306054)							
EM2207302-025	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	82.9	58.0	114
EM2207302-025	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	95.6	58.0	114
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4306057)							
EM2207398-022	SX_IB_20220425_07_57_SS_Duplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	82.2	58.0	114
EM2207398-022	SX_IB_20220425_07_57_SS_Duplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	96.4	58.0	114
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4306037)							
EM2207302-025	Anonymous	EK026SF: Total Cyanide	57-12-5	20 mg/kg	99.5	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4306038)							
EM2207398-022	SX_IB_20220425_07_57_SS_Duplicate_ALS	EK026SF: Total Cyanide	57-12-5	20 mg/kg	92.2	70.0	130
EK040T: Fluoride Total (QCLot: 4305859)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	72.0	70.0	130



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK040T: Fluoride Total (QCLot: 4305860)							
EM2207398-024	SX_IB_20220425_15_50_SS_Primary_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	70.9	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4305546)							
EM2207398-005	SX_OB_20220423_12_11_SB_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	101	59.6	152
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4305550)							
EM2207302-003	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	113	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4304299)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	63.0	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	65.7	55.1	124
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4304300)							
EM2207398-017	SX_IB_20220424_23_48_SS_Primary_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	89.9	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	87.1	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4304299)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	2 mg/kg	56.4	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	56.6	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	66.3	55.5	122
EP074I: Volatile Halogenated Compounds (QCLot: 4304300)							
EM2207398-017	SX_IB_20220424_23_48_SS_Primary_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	2 mg/kg	87.8	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	79.9	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	82.2	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4305545)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	90.3	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	90.2	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	65.9	10.0	144
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4305552)							
EM2207302-002	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	107	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	93.2	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	62.8	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4305545)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP075-EM: Phenol	108-95-2	3 mg/kg	89.6	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	77.4	34.2	129
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4305552)							
EM2207302-002	Anonymous	EP075-EM: Phenol	108-95-2	3 mg/kg	104	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	79.6	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4305545)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	92.6	42.6	138



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4305545) - continued							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP075-EM: Pyrene	129-00-0	3 mg/kg	86.3	37.8	152
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4305552)							
EM2207302-002	Anonymous	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	88.5	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	91.0	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4304299)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	68.8	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4304300)							
EM2207398-017	SX_IB_20220424_23_48_SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	82.4	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4305547)							
EM2207398-006	SX_OB_20220423_16_03_SS_Triplicate_ALS	EP071-EM: C10 - C14 Fraction	----	680 mg/kg	89.3	71.3	126
		EP071-EM: C15 - C28 Fraction	----	2830 mg/kg	99.8	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1340 mg/kg	101	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	4850 mg/kg	98.6	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4305551)							
EM2207302-006	Anonymous	EP071-EM: C10 - C14 Fraction	----	700 mg/kg	84.2	71.3	126
		EP071-EM: C15 - C28 Fraction	----	2930 mg/kg	93.8	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1380 mg/kg	98.2	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5010 mg/kg	93.6	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4304299)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	66.3	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4304300)							
EM2207398-017	SX_IB_20220424_23_48_SS_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	79.8	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4305547)							
EM2207398-006	SX_OB_20220423_16_03_SS_Triplicate_ALS	EP071-EM: >C10 - C16 Fraction	----	980 mg/kg	97.4	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	3210 mg/kg	118	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	270 mg/kg	80.8	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	4460 mg/kg	112	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4305551)							
EM2207302-006	Anonymous	EP071-EM: >C10 - C16 Fraction	----	1030 mg/kg	89.3	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	3680 mg/kg	106	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	270 mg/kg	84.4	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	4980 mg/kg	102	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4305014)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	86.9	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	73.2	73.0	123



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4305014) - continued							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	99.0	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	113	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	88.1	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	94.7	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4305037)							
EM2207227-002	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	99.5	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	80.3	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	80.6	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	122	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	85.2	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	106	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4307774)							
EM2207398-017	SX_IB_20220424_23_48_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	99.4	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	78.1	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	104	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	99.8	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	104	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	126	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4305014)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	92.7	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	95.4	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	88.4	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	93.4	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	87.1	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	104	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	92.4	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	90.8	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	93.6	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.00125 mg/kg	97.1	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	97.8	69.0	133
		EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4305037)					
EM2207227-002	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	89.9	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	78.5	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	90.2	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	96.7	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	91.1	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	87.8	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	105	69.0	133



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4305037) - continued							
EM2207227-002	Anonymous	EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	106	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	94.8	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	90.6	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	112	69.0	133
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4307774)							
EM2207398-017	SX_IB_20220424_23_48_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	93.2	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	104	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	98.0	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	97.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	97.7	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	90.6	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	102	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	102	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	98.7	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	91.9	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	101	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4305014)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	94.0	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	115	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	96.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	90.7	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	97.8	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	109	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	81.4	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4305037)							
EM2207227-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	91.5	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	84.6	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	95.2	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	92.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	85.4	70.0	130



Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4305037) - continued							
EM2207227-002	Anonymous	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	109	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	118	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4307774)							
EM2207398-017	SX_IB_20220424_23_48_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	101	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	112	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	107	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	99.1	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	110	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	82.2	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	90.1	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4305014)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	95.0	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	106	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	95.0	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	125	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4305037)							
EM2207227-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	101	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	109	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	103	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	90.2	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4307774)							
EM2207398-017	SX_IB_20220424_23_48_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	102	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	95.0	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	99.2	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	99.6	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4306840)							
EM2207302-004	Anonymous	EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.444 µg/L	93.1	72.0	130



Sub-Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
				Low	High		
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4306840) - continued							
EM2207302-004	Anonymous	EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.47 µg/L	98.7	71.0	127
		EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.457 µg/L	94.8	68.0	131
		EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.477 µg/L	108	69.0	134
		EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.465 µg/L	89.9	65.0	140
		EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.482 µg/L	88.9	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4307919)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	100	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	99.8	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	105	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	102	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	96.8	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	98.0	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4307929)							
EM2207398-023	SX_IB_20220425_11_48_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	96.6	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	99.5	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	102	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	131	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	129	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	141	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4308957)							
EM2207398-032	SX_OB_20220423_16_03_SS_Triplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	107	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	97.5	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	96.5	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	96.6	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	99.8	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	91.0	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4308976)							
EM2207398-049	SX_IB_20220425_11_48_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	119	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	95.4	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	95.0	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	105	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	86.7	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	84.4	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4311172)							
EM2207477-003	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	106	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	106	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	99.2	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	110	69.0	134



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4311172) - continued							
EM2207477-003	Anonymous	EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	98.6	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	102	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4306840)							
EM2207302-004	Anonymous	EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	2.5 µg/L	100	73.0	129
		EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.5 µg/L	104	72.0	129
		EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.5 µg/L	93.9	72.0	129
		EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.5 µg/L	91.2	72.0	130
		EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.5 µg/L	93.0	71.0	133
		EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.5 µg/L	104	69.0	130
		EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.5 µg/L	93.1	71.0	129
		EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.5 µg/L	100	69.0	133
		EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.5 µg/L	100.0	72.0	134
		EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.5 µg/L	93.9	65.0	144
		EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	1.25 µg/L	106	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4307919)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	90.8	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	95.4	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	97.5	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	104	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	98.5	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	98.4	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	101	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	104	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	100.0	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	101	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	99.1	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4307929)							
EM2207398-023	SX_IB_20220425_11_48_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	94.9	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	109	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	78.2	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	104	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	98.4	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	102	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	82.2	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	98.6	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	95.1	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	80.7	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	106	71.0	132



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	Spike Recovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4308957)							
EM2207398-032	SX_OB_20220423_16_03_SS_Triplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	91.6	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	102	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	98.3	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	94.5	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	96.4	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	95.7	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	93.0	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	97.0	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	83.9	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	78.9	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	88.2	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4308976)							
EM2207398-049	SX_IB_20220425_11_48_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	89.2	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	95.6	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	95.6	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	99.1	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	96.8	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	93.3	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	102	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	90.2	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	74.8	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	# 44.0	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	# 33.9	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4311172)							
EM2207477-003	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	91.4	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	88.6	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	88.6	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	101	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	101	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	90.0	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	118	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	108	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	94.9	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	79.6	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	110	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4306840)							
EM2207302-004	Anonymous	EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.5 µg/L	98.0	67.0	137



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4306840) - continued							
EM2207302-004	Anonymous	EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	1.25 µg/L	101	68.0	141
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	1.25 µg/L	103	70.0	130
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	1.25 µg/L	94.7	70.0	130
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	1.25 µg/L	101	70.0	130
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.5 µg/L	107	65.0	136
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.5 µg/L	94.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4307919)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	102	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	127	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	112	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	104	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	98.9	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	106	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	104	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4307929)							
EM2207398-023	SX_IB_20220425_11_48_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	105	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	109	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	110	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	101	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	84.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	113	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	99.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4308957)							



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4308957) - continued							
EM2207398-032	SX_OB_20220423_16_03_SS_Triplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	95.0	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	97.5	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	90.3	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	87.7	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	94.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	96.2	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	89.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4308976)							
EM2207398-049	SX_IB_20220425_11_48_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	89.4	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	71.9	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	# 61.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	77.4	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	70.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	75.5	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	75.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4311172)							
EM2207477-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	92.4	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	107	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	100	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	99.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	93.1	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	101	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	102	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4306840)							



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4306840) - continued							
EM2207302-004	Anonymous	EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.469 µg/L	97.8	63.0	143
		EP231X-INJ: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.476 µg/L	104	64.0	140
		EP231X-INJ: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.48 µg/L	109	67.0	138
		EP231X-INJ: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.483 µg/L	95.8	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4307919)							
EM2207398-002	SX_OB_20220423_08_12_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	101	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	104	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	107	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	96.5	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4307929)							
EM2207398-023	SX_IB_20220425_11_48_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	102	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	106	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	114	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	72.5	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4308957)							
EM2207398-032	SX_OB_20220423_16_03_SS_Triplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	106	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	110	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	102	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	77.8	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4308976)							
EM2207398-049	SX_IB_20220425_11_48_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	97.2	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	102	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	100	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# 54.8	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4311172)							
EM2207477-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	102	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	114	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	110	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	91.0	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EM2207398	Page	: 1 of 26
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: CRAIG TRIMBUR	Telephone	: +61-3-8549 9600
Project	: JC0927	Date Samples Received	: 26-Apr-2022
Site	: 20220426041206-ALS-21	Issue Date	: 29-Apr-2022
Sampler	: Brandon + TB - Agon, LR + HK - EP Risk	No. of samples received	: 54
Order number	: ----	No. of samples analysed	: 54

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **Laboratory Control outliers exist - please see following pages for full details.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP075A: Phenolic Compounds (Non-halogenated)	QC-4305545-001	----	2-Methyl-4,6-dinitrophenol	8071-51-0	147 %	43.6-128%	Recovery greater than upper control limit

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP231B: Perfluoroalkyl Carboxylic Acids	EM2207398--049	SX_IB_20220425_11_48_SS_	Perfluorotridecanoic acid (PFTrDA)	72629-94-8	44.0 %	65.0-144%	Recovery less than lower data quality objective
EP231B: Perfluoroalkyl Carboxylic Acids	EM2207398--049	SX_IB_20220425_11_48_SS_	Perfluorotetradecanoic acid (PFTeDA)	376-06-7	33.9 %	71.0-132%	Recovery less than lower data quality objective
EP231C: Perfluoroalkyl Sulfonamides	EM2207398--049	SX_IB_20220425_11_48_SS_	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	61.4 %	70.0-130%	Recovery less than lower data quality objective
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2207398--049	SX_IB_20220425_11_48_SS_	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	54.8 %	70.0-130%	Recovery less than lower data quality objective

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA001: pH in soil using 0.01M CaCl extract								
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	28-Apr-2022	30-Apr-2022	✓	28-Apr-2022	28-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	28-Apr-2022	01-May-2022	✓	28-Apr-2022	28-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	28-Apr-2022	02-May-2022	✓	28-Apr-2022	28-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA001) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	28-Apr-2022	03-May-2022	✓	28-Apr-2022	28-Apr-2022	✓
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	----	----	----	27-Apr-2022	07-May-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	----	----	----	27-Apr-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	----	----	----	27-Apr-2022	09-May-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	----	----	----	27-Apr-2022	10-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	20-Oct-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	22-Oct-2022	✓	27-Apr-2022	22-Oct-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	22-Oct-2022	✓	27-Apr-2022	22-Oct-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	23-Oct-2022	✓	27-Apr-2022	23-Oct-2022	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	21-May-2022	✓	27-Apr-2022	21-May-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	22-May-2022	✓	27-Apr-2022	22-May-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	23-May-2022	✓	27-Apr-2022	23-May-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	24-May-2022	✓	27-Apr-2022	24-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	21-May-2022	✓	28-Apr-2022	04-May-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	22-May-2022	✓	28-Apr-2022	04-May-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	23-May-2022	✓	28-Apr-2022	04-May-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	24-May-2022	✓	28-Apr-2022	04-May-2022	✓
EK026SF: Total CN by Segmented Flow Analyser								
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	07-May-2022	✓	28-Apr-2022	11-May-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	08-May-2022	✓	28-Apr-2022	11-May-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	09-May-2022	✓	28-Apr-2022	11-May-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	10-May-2022	✓	28-Apr-2022	11-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EK040T: Fluoride Total								
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	21-May-2022	✓	29-Apr-2022	21-May-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	22-May-2022	✓	29-Apr-2022	22-May-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	23-May-2022	✓	29-Apr-2022	23-May-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	24-May-2022	✓	29-Apr-2022	24-May-2022	✓
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	24-Apr-2022	27-Apr-2022	22-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_IB_20220424_16_49_SS_Triplicate_ALS		24-Apr-2022	28-Apr-2022	21-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	22-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_IB_20220426_00_02_SS_Primary_ALS		26-Apr-2022	27-Apr-2022	23-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_IB_20220426_03_47_SS_Primary_ALS		26-Apr-2022	28-Apr-2022	23-Oct-2022	✓	----	----	----



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	22-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	22-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	28-Apr-2022	22-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_IB_20220426_00_02_SS_Primary_ALS, SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	23-Oct-2022	✓	----	----	----
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	07-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	08-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	09-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM) SX_IB_20220426_00_02_SS_Primary_ALS, SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	10-May-2022	✓	27-Apr-2022	06-Jun-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	26-Apr-2022	30-Apr-2022	✓	27-Apr-2022	30-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	26-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS,	24-Apr-2022	27-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	02-May-2022	✓	27-Apr-2022	02-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	03-May-2022	✓	27-Apr-2022	03-May-2022	✓
EP074H: Naphthalene								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	26-Apr-2022	30-Apr-2022	✓	27-Apr-2022	30-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	26-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS,	24-Apr-2022	27-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	02-May-2022	✓	27-Apr-2022	02-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	03-May-2022	✓	27-Apr-2022	03-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP074I: Volatile Halogenated Compounds								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	26-Apr-2022	30-Apr-2022	✓	27-Apr-2022	30-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	26-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS,	24-Apr-2022	27-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	02-May-2022	✓	27-Apr-2022	02-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	03-May-2022	✓	27-Apr-2022	03-May-2022	✓
EP075A: Phenolic Compounds (Halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	07-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	08-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	09-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	10-May-2022	✓	27-Apr-2022	06-Jun-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP075A: Phenolic Compounds (Non-halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	07-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	08-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	09-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	10-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	07-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	08-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	09-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	10-May-2022	✓	27-Apr-2022	06-Jun-2022	✓



Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	07-May-2022	✔	27-Apr-2022	06-Jun-2022	✔
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	08-May-2022	✔	27-Apr-2022	06-Jun-2022	✔
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	09-May-2022	✔	27-Apr-2022	06-Jun-2022	✔
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	10-May-2022	✔	27-Apr-2022	06-Jun-2022	✔



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	26-Apr-2022	30-Apr-2022	✓	27-Apr-2022	30-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	07-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	26-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	02-May-2022	✓	27-Apr-2022	02-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	03-May-2022	✓	27-Apr-2022	03-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	26-Apr-2022	30-Apr-2022	✓	27-Apr-2022	30-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	07-May-2022	✓	27-Apr-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	26-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS,	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	24-Apr-2022	27-Apr-2022	01-May-2022	✓	27-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	27-Apr-2022	02-May-2022	✓	27-Apr-2022	02-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	27-Apr-2022	03-May-2022	✓	27-Apr-2022	03-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	27-Apr-2022	21-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS,	24-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	28-Apr-2022	23-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	27-Apr-2022	21-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS,	24-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	28-Apr-2022	23-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	27-Apr-2022	21-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS,	24-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	28-Apr-2022	23-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	27-Apr-2022	21-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS,	24-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	28-Apr-2022	23-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓



Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231P: PFAS Sums								
HDPE Soil Jar (EP231X) SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS,	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS	SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS,	24-Apr-2022	27-Apr-2022	21-Oct-2022	✓	27-Apr-2022	06-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS	SX_IB_20220424_23_48_SS_Primary_ALS,	24-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS,	SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS	25-Apr-2022	28-Apr-2022	22-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220426_00_02_SS_Primary_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	26-Apr-2022	28-Apr-2022	23-Oct-2022	✓	28-Apr-2022	07-Jun-2022	✓

Matrix: **WATER**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation



Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS, SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_00_02_SS_Primary_ALS, SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220426_00_02_SS_Primary_ALS	27-Apr-2022	28-Apr-2022	24-Oct-2022	✓	28-Apr-2022	24-Oct-2022	✓
HDPE (no PTFE) (EP231X) SX_IB_20220424_16_49_SS_Triplicate_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	28-Apr-2022	28-Apr-2022	25-Oct-2022	✓	28-Apr-2022	25-Oct-2022	✓
HDPE (no PTFE) (EP231X) SX_IB_20220425_19_49_SS_Primary_ALS		28-Apr-2022	29-Apr-2022	25-Oct-2022	✓	29-Apr-2022	25-Oct-2022	✓
Miscellaneous Plastic bottle - Unpreserved (EP231X-INJ) SX_OB_20220423_08_38_SS_Blank_ALS,	SX_OB_20220423_08_36_SR_Rinsate_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	20-Oct-2022	✓



Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis				
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation		
EP231B: Perfluoroalkyl Carboxylic Acids									
HDPE (no PTFE) (EP231X)									
SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS, SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_00_02_SS_Primary_ALS, SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220426_00_02_SS_Primary_ALS	27-Apr-2022	28-Apr-2022	24-Oct-2022	✓	28-Apr-2022	24-Oct-2022	✓	
HDPE (no PTFE) (EP231X)									
SX_IB_20220424_16_49_SS_Triplicate_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	28-Apr-2022	28-Apr-2022	25-Oct-2022	✓	28-Apr-2022	25-Oct-2022	✓	
HDPE (no PTFE) (EP231X)									
SX_IB_20220425_19_49_SS_Primary_ALS		28-Apr-2022	29-Apr-2022	25-Oct-2022	✓	29-Apr-2022	25-Oct-2022	✓	
Miscellaneous Plastic bottle - Unpreserved (EP231X-INJ)									
SX_OB_20220423_08_38_SS_Blank_ALS,	SX_OB_20220423_08_36_SR_Rinsate_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	20-Oct-2022	✓	



Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X)								
SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS, SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_00_02_SS_Primary_ALS, SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220426_00_02_SS_Primary_ALS	27-Apr-2022	28-Apr-2022	24-Oct-2022	✓	28-Apr-2022	24-Oct-2022	✓
HDPE (no PTFE) (EP231X)								
SX_IB_20220424_16_49_SS_Triplicate_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	28-Apr-2022	28-Apr-2022	25-Oct-2022	✓	28-Apr-2022	25-Oct-2022	✓
HDPE (no PTFE) (EP231X)								
SX_IB_20220425_19_49_SS_Primary_ALS		28-Apr-2022	29-Apr-2022	25-Oct-2022	✓	29-Apr-2022	25-Oct-2022	✓
Miscellaneous Plastic bottle - Unpreserved (EP231X-INJ)								
SX_OB_20220423_08_38_SS_Blank_ALS,	SX_OB_20220423_08_36_SR_Rinsate_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	20-Oct-2022	✓



Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS, SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_00_02_SS_Primary_ALS, SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220426_00_02_SS_Primary_ALS	27-Apr-2022	28-Apr-2022	24-Oct-2022	✓	28-Apr-2022	24-Oct-2022	✓
HDPE (no PTFE) (EP231X) SX_IB_20220424_16_49_SS_Triplicate_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	28-Apr-2022	28-Apr-2022	25-Oct-2022	✓	28-Apr-2022	25-Oct-2022	✓
HDPE (no PTFE) (EP231X) SX_IB_20220425_19_49_SS_Primary_ALS		28-Apr-2022	29-Apr-2022	25-Oct-2022	✓	29-Apr-2022	25-Oct-2022	✓
Miscellaneous Plastic bottle - Unpreserved (EP231X-INJ) SX_OB_20220423_08_38_SS_Blank_ALS,	SX_OB_20220423_08_36_SR_Rinsate_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	20-Oct-2022	✓



Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis				
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation		
EP231P: PFAS Sums									
HDPE (no PTFE) (EP231X)									
SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220425_19_49_SS_Primary_ALS, SX_OB_20220423_08_10_SS_Primary_ALS, SX_OB_20220423_12_11_SB_Primary_ALS, SX_OB_20220423_16_04_SS_Primary_ALS, SX_OB_20220424_00_14_SS_Primary_ALS, SX_OB_20220424_08_05_SS_Primary_ALS, SX_IB_20220424_12_03_SS_Primary_ALS, SX_IB_20220424_16_49_SS_Triplicate_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_03_47_SS_Primary_ALS	SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_23_48_SS_Primary_ALS, SX_OB_20220425_04_16_SS_Primary_ALS, SX_IB_20220425_07_56_SS_Primary_ALS, SX_IB_20220425_11_48_SS_Primary_ALS, SX_IB_20220425_15_58_SS_Triplicate_ALS, SX_IB_20220426_00_02_SS_Primary_ALS, SX_OB_20220423_08_12_SS_Duplicate_ALS, SX_OB_20220423_16_03_SS_Triplicate_ALS, SX_OB_20220423_20_07_SS_Primary_ALS, SX_IB_20220424_04_08_SS_Primary_ALS, SX_OB_20220424_08_06_SS_Duplicate_ALS, SX_IB_20220424_16_05_SS_Primary_ALS, SX_IB_20220424_19_54_SS_Primary_ALS, SX_IB_20220424_23_55_SS_Primary_ALS, SX_OB_20220425_04_18_SS_Duplicate_ALS, SX_IB_20220425_07_57_SS_Duplicate_ALS, SX_IB_20220425_15_50_SS_Primary_ALS, SX_IB_20220426_00_02_SS_Primary_ALS	27-Apr-2022	28-Apr-2022	24-Oct-2022	✓	28-Apr-2022	24-Oct-2022	✓	
HDPE (no PTFE) (EP231X)									
SX_IB_20220424_16_49_SS_Triplicate_ALS,	SX_IB_20220426_03_47_SS_Primary_ALS	28-Apr-2022	28-Apr-2022	25-Oct-2022	✓	28-Apr-2022	25-Oct-2022	✓	
HDPE (no PTFE) (EP231X)									
SX_IB_20220425_19_49_SS_Primary_ALS		28-Apr-2022	29-Apr-2022	25-Oct-2022	✓	29-Apr-2022	25-Oct-2022	✓	
Miscellaneous Plastic bottle - Unpreserved (EP231X-INJ)									
SX_OB_20220423_08_38_SS_Blank_ALS,	SX_OB_20220423_08_36_SR_Rinsate_ALS	23-Apr-2022	27-Apr-2022	20-Oct-2022	✓	27-Apr-2022	20-Oct-2022	✓	



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	3	27	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	3	27	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	4	38	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	5	39	12.82	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	3	27	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	4	38	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	3	27	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	3	26	11.54	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	3	26	11.54	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	3	26	11.54	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	4	26	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	27	14.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	39	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	4	27	14.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	27	7.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	3	26	11.54	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	27	7.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	39	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	27	7.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Matrix: **SOIL** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	27	14.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	39	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	27	7.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	8	55	14.55	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	6	55	10.91	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	6	55	10.91	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	5	55	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl ₂ extract	EA001	SOIL	In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Total Cyanide by Segmented Flow Analyser	EK026SF	SOIL	In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3).
Total Fluoride	EK040T	SOIL	(In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.
PCB - VIC EPA 448.3 Screen	EP066-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071-EM	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
Volatile Organic Compounds - Ultra-trace	EP074-UT	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).



Analytical Methods	Method	Matrix	Method Descriptions
Volatile Organic Compounds - Ultra-trace - Summations	EP074-UT-SUM	SOIL	Summation of MAHs and VHCs
Semivolatile Organic Compounds - Waste Classification	EP075-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
SVOC - Waste Classification (Sums)	EP075-EM-SUM	SOIL	Summations for EP075 (EM variation)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	WATER	In house: Direct injection analysis of fresh waters after dilution (1:1) with mobile phase solvent. Analysis by LC-Electrospray-MS-MS, Negative Mode using MRM. Where commercially available, isotopically labelled analogues of the target analytes are used as internal standards for quantification. Where a labelled analogue is not commercially available, the internal standard with similar chemistry and the closest retention time to the target is used for quantification. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers.

Preparation Methods	Method	Matrix	Method Descriptions
NaOH leach for CN in Soils	CN-PR	SOIL	In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.
pH in soil using a 0.01M CaCl ₂ extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Total Fluoride	EK040T-PR	SOIL	In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils - Ultra-trace.	ORG16-UT	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids - VIC EPA Screen	ORG17-EM	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
QuEChERS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	SOIL	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.
Preparation for PFAS in water.	EP231-PR	WATER	Method presumes direct injection without workup. Preparation includes addition of internal standard and surrogate, and filtration prior to analysis.

CHAIN OF CUSTODY DOCUMENTATION



Australian Laboratory Services Pty Ltd

CLIENT: Aron Environmental	SAMPLER: [Signature]
ADDRESS / OFFICE: Melbourne	MOBILE 1: +61 400 826 907 (Craig Trimbur)
PROJECT MANAGER (PM): Craig Trimbur	MOBILE 2: +61 490 411 004 (David Lawson)
PROJECT ID: JC0927	EMAIL REPORT TO: [Emails]
SITE: [Blank]	P.O. NO.:
RESULTS REQUIRED (Date):	QUOTE NO.: ME-150-19 WGTP
EMAIL INVOICE TO: (if different to report) [Emails]	

FOR LABORATORY USE ONLY		COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:		Notes:
COOLER SEAL (where appropriate):				
Intact: Yes No N/A				
SAMPLE TEMPERATURE:				
CHILLED: Yes No				

SAMPLE INFORMATION (note: S = Soil, W = Water)							CONTAINER INFORMATION					Spoil Sample Prep	PF16 plus Cr	PFAS 28 Extended suite	ASLP PFAS - Extended Suite (Lab to determine pH)	DI Leachate PFAS - Extended Suite								
ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles																		
1	SX_IB_20220429_08_12_SS_Primary_ALS	S	29/04/2022	08:12	Bucket	1	x	x	x	x	x													
2	SX_IB_20220429_08_12_SS_Duplicate_ALS	S	29/04/2022	08:12	Bucket	1	x	x	x	x	x													
3	SX_IB_20220429_08_20_SR_Rinse_ALS	W	29/04/2022	08:20	Bottle	1					x													
4	SX_IB_20220429_08_23_SB_Blank_ALS	W	29/04/2022	08:23	Bottle	1					x													
5	SX_IB_20220429_12_08_SS_Primary_ALS	S	29/04/2022	12:08	Bucket	1	x	x	x	x	x													
6	SX_OB_20220429_16_14_SS_Triplicate_ALS	S	29/04/2022	16:14	Bucket	1	x	x	x	x	x													
7	SX_OB_20220429_18_18_SS_Primary_ALS	S	29/04/2022	18:18	Bucket	1	x	x	x	x	x													
8	SX_OB_20220429_20_00_SS_Primary_ALS	S	29/04/2022	20:00	Bucket	1	x	x	x	x	x													
9	SX_OB_20220430_00_05_SS_Primary_ALS	S	30/04/2022	00:05	Bucket	1	x	x	x	x	x													
10	SX_OB_20220430_04_05_SS_Primary_ALS	S	30/04/2022	04:05	Bucket	1	x	x	x	x	x													

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Environmental Division
Melbourne
Work Order Reference
EM2207719



Telephone: +61-3-8549 9600

RELINQUISHED BY:		RECEIVED BY:		METHOD OF SHIPMENT:	
Name: [Signature]	Date: 30/4	Name: [Signature]	Date: 30/4/22	Con' Note No.:	
Of: [Signature]	Time: 8:55	Of: [Signature]	Time: 8:55	Transport Co.:	

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORC = Nitric Preserved ORC, SH = Sodium Hydroxide/Gd Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, V = VOA Vial HCl Preserved, VS = VOA Vial Sulphuric Preserved, SG = Sulfuric Preserved Amber Glass, H = HCl Preserved Plastic, HS = HCl Preserved Speciation bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass, Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag.

CERTIFICATE OF ANALYSIS

Work Order : **EM2207719**
Client : **AGON ENVIRONMENTAL PTY LTD**
Contact : DAVID LAWSON
Address : D1.1 63-85 TURNER STREET
 PORT MELBOURNE 3207

Telephone : ----
Project : JC0927
Order number : ----
C-O-C number : 20220430052429-ALS-12
Sampler : Martha Agon / Toby Gray
Site : 20220430052429-ALS-12
Quote number : EN/150/19 -WGTP -Bulk Sample Quote
No. of samples received : 18
No. of samples analysed : 18

Page : 1 of 29
Laboratory : Environmental Division Melbourne
Contact : Josh Alexander
Address : 4 Westall Rd Springvale VIC Australia 3171

Telephone : +61-3-8549 9600
Date Samples Received : 30-Apr-2022 08:55
Date Analysis Commenced : 02-May-2022
Issue Date : 06-May-2022 15:14



Accreditation No. 825
 Accredited for compliance with
 ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP231X: Poor matrix spike recovery for sample EM2207664-015 due to sample matrix interference.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP074-UT: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074-WF: Where reported, Sum of trichlorobenzenes is the sum of the reported concentrations of 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene, and 1,3,5-Trichlorobenzene at or above the LOR.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.
- EN60-DI: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.
- EP231X-INJ: The direct injection LCMSMS method may be used where the sample matrix is not suitable for Solid Phase Extraction (e.g. significant particulate load) or where only a single sample container is received.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-001	EM2207719-002	EM2207719-005	EM2207719-006	EM2207719-007
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-001	EM2207719-002	EM2207719-005	EM2207719-006	EM2207719-007
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	92.6	93.0	94.0	99.5	96.3
13C8-PFOA	----	0.02	%	94.1	92.3	92.4	97.0	91.9



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_SS_Primary_ALS	----	----
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	----	----
Compound	CAS Number	LOR	Unit	EM2207719-008	EM2207719-009	EM2207719-010	-----	-----
				Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_SS_Primary_ALS	----	----
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	----	----
Compound	CAS Number	LOR	Unit	EM2207719-008	EM2207719-009	EM2207719-010	-----	-----
				Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	96.6	96.7	95.8	----	----
13C8-PFOA	----	0.02	%	94.0	95.4	96.0	----	----



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-011	EM2207719-012	EM2207719-013	EM2207719-014	EM2207719-015
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-011	EM2207719-012	EM2207719-013	EM2207719-014	EM2207719-015
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	92.0	91.1	88.2	82.1	88.5
13C8-PFOA	----	0.02	%	98.8	94.3	102	91.8	93.0



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_SS_Primary_ALS	----	----
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	----	----
Compound	CAS Number	LOR	Unit	EM2207719-016	EM2207719-017	EM2207719-018	-----	-----
				Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_SS_Primary_ALS	----	----
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	----	----
Compound	CAS Number	LOR	Unit	EM2207719-016	EM2207719-017	EM2207719-018	-----	-----
				Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	89.7	88.8	95.3	----	----
13C8-PFOA	----	0.02	%	95.0	89.9	93.9	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-001	EM2207719-002	EM2207719-005	EM2207719-006	EM2207719-007
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl ₂)	----	0.1	pH Unit	8.9	8.8	8.8	7.6	7.7
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	33.7	33.6	32.6	31.6	29.4
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	29	21	21	38	40
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	86	78	82	98	86
Copper	7440-50-8	5	mg/kg	73	61	68	58	51
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	173	158	162	175	167
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	121	109	133	118	94
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	220	180	190	170	180
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.8	9.9	10.0	9.0	9.1
After HCl pH	----	0.1	pH Unit	1.0	1.4	1.3	1.4	1.3
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.2	5.2	5.1	5.1	5.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-001	EM2207719-002	EM2207719-005	EM2207719-006	EM2207719-007
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-001	EM2207719-002	EM2207719-005	EM2207719-006	EM2207719-007
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-001	EM2207719-002	EM2207719-005	EM2207719-006	EM2207719-007
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-001	EM2207719-002	EM2207719-005	EM2207719-006	EM2207719-007
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-001	EM2207719-002	EM2207719-005	EM2207719-006	EM2207719-007
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS	SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS
Sampling date / time				29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
Compound	CAS Number	LOR	Unit	EM2207719-001	EM2207719-002	EM2207719-005	EM2207719-006	EM2207719-007
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	106	110	112	109	114
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	105	106	107	109	106
Toluene-D8	2037-26-5	0.1	%	104	104	106	108	113
4-Bromofluorobenzene	460-00-4	0.1	%	101	104	104	103	113
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	87.9	86.8	91.1	94.6	93.5
2-Chlorophenol-D4	93951-73-6	0.025	%	81.2	79.0	83.7	86.9	85.4
2,4,6-Tribromophenol	118-79-6	0.025	%	73.4	75.2	76.5	80.6	77.8
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	88.2	86.1	90.7	94.1	92.8
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	80.9	79.3	83.1	85.7	84.8
2-Fluorobiphenyl	321-60-8	0.025	%	90.6	89.0	93.5	97.1	95.4
Anthracene-d10	1719-06-8	0.025	%	82.8	82.0	85.8	89.3	88.2
4-Terphenyl-d14	1718-51-0	0.025	%	87.8	88.3	90.4	93.8	92.6
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	108	104	106	109	94.2
13C8-PFOA	----	0.0002	%	89.4	88.6	93.4	91.8	90.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_05_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
Compound	CAS Number	LOR	Unit	EM2207719-008	EM2207719-009	EM2207719-010	EM2207719-011	EM2207719-012
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl ₂)	----	0.1	pH Unit	7.6	7.6	7.6	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	30.0	28.6	30.2	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	33	28	20	----	----
Cadmium	7440-43-9	1	mg/kg	1	1	<1	----	----
Chromium	7440-47-3	5	mg/kg	116	107	122	----	----
Copper	7440-50-8	5	mg/kg	66	65	64	----	----
Lead	7439-92-1	5	mg/kg	<5	<5	<5	----	----
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	----	----
Nickel	7440-02-0	5	mg/kg	198	177	178	----	----
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	----	----
Silver	7440-22-4	2	mg/kg	<2	<2	<2	----	----
Tin	7440-31-5	10	mg/kg	<10	<10	<10	----	----
Zinc	7440-66-6	5	mg/kg	127	114	116	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	----	----
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	----	----
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	180	150	120	----	----
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	8.9	8.9	8.9	----	----
After HCl pH	----	0.1	pH Unit	1.4	1.3	1.3	----	----
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	----	----
Final pH	----	0.1	pH Unit	5.1	5.1	5.1	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	----	----	----	10.1	10.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_05_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
Compound	CAS Number	LOR	Unit	EM2207719-008	EM2207719-009	EM2207719-010	EM2207719-011	EM2207719-012
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	----
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_05_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
Compound	CAS Number	LOR	Unit	EM2207719-008	EM2207719-009	EM2207719-010	EM2207719-011	EM2207719-012
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	----	----
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	----	----
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	----	----
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	----	----
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	----	----
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	----	----
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	----	----
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	----	----
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	----	----
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	----	----
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	----	----
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	----	----
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	----	----
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	----	----
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	----	----
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	----	----
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_05_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
Compound	CAS Number	LOR	Unit	EM2207719-008	EM2207719-009	EM2207719-010	EM2207719-011	EM2207719-012
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	----	----
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	----	----
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	----	----
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12	
Compound	CAS Number	LOR	Unit	EM2207719-008	EM2207719-009	EM2207719-010	EM2207719-011	EM2207719-012	
				Result	Result	Result	Result	Result	
EP075I: Organochlorine Pesticides - Continued									
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----	
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	----	----	
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	----	----	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	----	
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	----	
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----	
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	----	----	
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	----	----	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_05_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12	
Compound	CAS Number	LOR	Unit	EM2207719-008	EM2207719-009	EM2207719-010	EM2207719-011	EM2207719-012	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	----	----	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS	SX_OB_20220430_04_05_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Primary_ALS	SX_IB_20220429_08_12_SS_Duplicate_ALS
Sampling date / time				29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12	
Compound	CAS Number	LOR	Unit	EM2207719-008	EM2207719-009	EM2207719-010	EM2207719-011	EM2207719-012	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	----	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	118	108	103	----	----	
EP074S: VOC Surrogates (Ultra-Trace)									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	117	100	111	----	----	
Toluene-D8	2037-26-5	0.1	%	117	99.9	112	----	----	
4-Bromofluorobenzene	460-00-4	0.1	%	116	99.4	108	----	----	
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%	100	82.4	89.0	----	----	
2-Chlorophenol-D4	93951-73-6	0.025	%	90.2	72.9	83.2	----	----	
2,4,6-Tribromophenol	118-79-6	0.025	%	86.2	75.2	77.4	----	----	
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%	96.9	77.8	88.6	----	----	
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	87.2	66.5	82.4	----	----	
2-Fluorobiphenyl	321-60-8	0.025	%	102	82.9	91.0	----	----	
Anthracene-d10	1719-06-8	0.025	%	97.0	81.3	83.5	----	----	
4-Terphenyl-d14	1718-51-0	0.025	%	101	86.5	88.0	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	121	129	132	----	----	
13C8-PFOA	----	0.0002	%	90.2	96.1	88.8	----	----	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220429_12_08_SS_Primary_ALS	SX_OB_20220429_16_14_SS_Triplicate_ALS	SX_OB_20220429_16_18_SS_Primary_ALS	SX_OB_20220429_20_00_SS_Primary_ALS	SX_OB_20220430_00_05_SS_Primary_ALS
Sampling date / time				29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18	29-Apr-2022 20:00	30-Apr-2022 00:05
Compound	CAS Number	LOR	Unit	EM2207719-013	EM2207719-014	EM2207719-015	EM2207719-016	EM2207719-017
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	10.2	9.1	9.1	8.9	8.9



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SX_OB_20220430_04 _05_SS_Primary_ALS	----	----	----	----
			Sampling date / time	30-Apr-2022 04:05	----	----	----	----
Compound	CAS Number	LOR	Unit	EM2207719-018	-----	-----	-----	-----
				Result	----	----	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.0	----	----	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Sample ID		SX_IB_20220429_08_20_SR_Rinsate_ALS	SX_IB_20220429_08_23_SB_Blank_ALS	----	----	----
		Sampling date / time		29-Apr-2022 08:20	29-Apr-2022 08:23	----	----	----
Compound	CAS Number	LOR	Unit	EM2207719-003	EM2207719-004	-----	-----	-----
				Result	Result	---	---	---
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.10	µg/L	<0.10	<0.10	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SX_IB_20220429_08_20_SR_Rinsate_ALS	SX_IB_20220429_08_23_SB_Blank_ALS	----	----	----
Sampling date / time				29-Apr-2022 08:20	29-Apr-2022 08:23	----	----	----	
Compound	CAS Number	LOR	Unit	EM2207719-003	EM2207719-004	-----	-----	-----	
				Result	Result	---	---	---	
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231P: PFAS Sums									
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	----	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	92.6	88.6	----	----	----	
13C8-PFOA	----	0.02	%	94.0	97.8	----	----	----	



Surrogate Control Limits

Sub-Matrix: ASLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: DI WATER LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	41	122
EP074S: VOC Surrogates (Ultra-Trace)			
1,2-Dichloroethane-D4	17060-07-0	59	119
Toluene-D8	2037-26-5	55	117
4-Bromofluorobenzene	460-00-4	59	123
EP075S: Acid Extractable Surrogates (Waste Classification)			
Phenol-d6	13127-88-3	63	134
2-Chlorophenol-D4	93951-73-6	60	125
2,4,6-Tribromophenol	118-79-6	54	129
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)			
Nitrobenzene-D5	4165-60-0	63	131
1,2-Dichlorobenzene-D4	2199-69-1	61	124
2-Fluorobiphenyl	321-60-8	69	131
Anthracene-d10	1719-06-8	70	133
4-Terphenyl-d14	1718-51-0	59	141
EP231S: PFAS Surrogate			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Automated Guideline Comparison Report

EPA Victoria Publication IWRG 621 (2009) - Table 2: Soil Hazard Categorisation

Work Order	: EM2207719	Page	: 1 of 26
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON		
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Telephone	: ----	Telephone	: +61-3-8549 9600
Facsimile	: ----	Facsimile	: +61-3-8549 9626
Project	: JC0927	Date Received	: 30-Apr-2022 08:55
Order number	: ----	Date Analysed	: 02-May-2022
C-O-C number	: 20220430052429-ALS-12	Date Issued	: 06-May-2022 15:14
No. of samples received	: 18		
No. of samples analysed	: 18	Quote number	: EN/150/19 -WGTP -Bulk Sample Quote

General Comments

This guideline comparison report **only** provides comparison of total concentration data against upper limit thresholds for the 'Fill Material', 'C', 'B' Categories in Table 2 of EPA Publication IWRG621.

This guideline comparison report is **NOT** a soil classification report. Classification of soils as Fill Material, Category C, Category B or Category A requires consideration of a number of other factors including preliminary site investigation, sampling density and statistical calculations, as set out in EPA Publication IWRG 702 and measurement uncertainty.

This guideline comparison report only provides comparison data for parameters, specifically listed within the IWRG621 (2009) guideline, that are analysed by ALS.

Only results in the 'Analytical Results' section have been compared to the guideline.

Additional information pertinent to this report will be found in the following separate attachments: Certificate of Analysis, Quality Control Report, QA/QC Compliance Assessment to Assist with Quality Review and Sample Receipt Notification.



Summary of Thresholds Reached or Exceeded

EPA Victoria Publication IWRG 621 (2009)

Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Client Sample ID	ALS Sample ID	Compound	Method	LOR	Limits	Result
SX_IB_20220429_08_12_S S_Primary_ALS	EM2207719-001	Arsenic	EG005T	5	< 20 mg/kg	29 mg/kg
SX_IB_20220429_08_12_S S_Primary_ALS	EM2207719-001	Nickel	EG005T	5	< 60 mg/kg	173 mg/kg
SX_IB_20220429_08_12_S S_Duplicate_ALS	EM2207719-002	Arsenic	EG005T	5	< 20 mg/kg	21 mg/kg
SX_IB_20220429_08_12_S S_Duplicate_ALS	EM2207719-002	Nickel	EG005T	5	< 60 mg/kg	158 mg/kg
SX_IB_20220429_12_08_S S_Primary_ALS	EM2207719-005	Arsenic	EG005T	5	< 20 mg/kg	21 mg/kg
SX_IB_20220429_12_08_S S_Primary_ALS	EM2207719-005	Nickel	EG005T	5	< 60 mg/kg	162 mg/kg
SX_OB_20220429_16_14_ SS_Triplicate_ALS	EM2207719-006	Arsenic	EG005T	5	< 20 mg/kg	38 mg/kg
SX_OB_20220429_16_14_ SS_Triplicate_ALS	EM2207719-006	Nickel	EG005T	5	< 60 mg/kg	175 mg/kg
SX_OB_20220429_16_18_ SS_Primary_ALS	EM2207719-007	Arsenic	EG005T	5	< 20 mg/kg	40 mg/kg
SX_OB_20220429_16_18_ SS_Primary_ALS	EM2207719-007	Nickel	EG005T	5	< 60 mg/kg	167 mg/kg
SX_OB_20220429_20_00_ SS_Primary_ALS	EM2207719-008	Arsenic	EG005T	5	< 20 mg/kg	33 mg/kg
SX_OB_20220429_20_00_ SS_Primary_ALS	EM2207719-008	Nickel	EG005T	5	< 60 mg/kg	198 mg/kg
SX_OB_20220430_00_05_ SS_Primary_ALS	EM2207719-009	Arsenic	EG005T	5	< 20 mg/kg	28 mg/kg
SX_OB_20220430_00_05_ SS_Primary_ALS	EM2207719-009	Nickel	EG005T	5	< 60 mg/kg	177 mg/kg
SX_OB_20220430_04_05_ SS_Primary_ALS	EM2207719-010	Arsenic	EG005T	5	< 20 mg/kg	20 mg/kg
SX_OB_20220430_04_05_ SS_Primary_ALS	EM2207719-010	Nickel	EG005T	5	< 60 mg/kg	178 mg/kg



Analytical Results

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		Guideline Lower Limit	Guideline Upper Limit	SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_OB_20220	SX_OB_20220
				Sampling date/time				429_08_12_S	429_08_12_S	429_12_08_S	429_16_14_S	429_16_18_S
								S_Primary_AL	S_Duplicate_	S_Primary_AL	S_Triplicate_	S_Primary_AL
							29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18	
							EM2207719-001 MU	EM2207719-002 MU	EM2207719-005 MU	EM2207719-006 MU	EM2207719-007 MU	
EA001: pH in soil using 0.01M CaCl extract												
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5		8.9 ± 0.1	8.8 ± 0.1	8.8 ± 0.1	7.6 ± 0.1	7.7 ± 0.1	
EG005(ED093)T: Total Metals by ICP-AES												
Arsenic	EG005T	5	mg/kg	----	2000		29 ± 4	21 ± 3	21 ± 3	38 ± 5	40 ± 5	
Cadmium	EG005T	1	mg/kg	----	400		<1 ..	<1 ..	<1 ..	<1 ..	<1 ..	
Copper	EG005T	5	mg/kg	----	20000		73 ± 9	61 ± 7	68 ± 8	58 ± 7	51 ± 6	
Lead	EG005T	5	mg/kg	----	6000		<5 ..	<5 ..	<5 ..	<5 ..	<5 ..	
Molybdenum	EG005T	5	mg/kg	----	4000		<5 ..	<5 ..	<5 ..	<5 ..	<5 ..	
Nickel	EG005T	5	mg/kg	----	12000		173 ± 17	158 ± 16	162 ± 16	175 ± 17	167 ± 16	
Selenium	EG005T	5	mg/kg	----	200		<5 ..	<5 ..	<5 ..	<5 ..	<5 ..	
Silver	EG005T	2	mg/kg	----	720		<2 ..	<2 ..	<2 ..	<2 ..	<2 ..	
Zinc	EG005T	5	mg/kg	----	140000		121 ± 13	109 ± 12	133 ± 14	118 ± 13	94 ± 10	
EG035T: Total Recoverable Mercury by FIMS												
Mercury	EG035T	0.1	mg/kg	----	300		<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	
EG048: Hexavalent Chromium (Alkaline Digest)												
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000		<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	
EK026SF: Total CN by Segmented Flow Analyser												
Total Cyanide	EK026SF	5	mg/kg	----	10000		<5 ..	<5 ..	<5 ..	<5 ..	<5 ..	
EK040T: Fluoride Total												
Fluoride	EK040T	100	mg/kg	----	40000		220 ± 40	180 ± 40	190 ± 40	170 ± 40	180 ± 40	
EP074A: Monocyclic Aromatic Hydrocarbons												
Benzene	EP074-UT	0.2	mg/kg	----	16		<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	240		<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	
EP074I: Volatile Halogenated Compounds												
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8		<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11		<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	50		<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	
EP075A: Phenolic Compounds (Halogenated)												
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320		<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	429_08_12_S	429_08_12_S	429_12_08_S	429_16_14_S	429_16_18_S
						S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
						EM2207719-001 MU	EM2207719-002 MU	EM2207719-005 MU	EM2207719-006 MU	EM2207719-007 MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 429_08_12_S S_Primary_AL S	SX_IB_20220 429_08_12_S S_Duplicate_ ALS	SX_IB_20220 429_12_08_S S_Primary_AL S	SX_OB_20220 429_16_14_S S_Triplicate_ ALS	SX_OB_20220 429_16_18_S S_Primary_AL S
				Guideline	Guideline	29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
				Lower Limit	Upper Limit	EM2207719-001 MU	EM2207719-002 MU	EM2207719-005 MU	EM2207719-006 MU	EM2207719-007 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	8.9 ± 0.1	8.8 ± 0.1	8.8 ± 0.1	7.6 ± 0.1	7.7 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	29 ± 4	21 ± 3	21 ± 3	38 ± 5	40 ± 5
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	5000	73 ± 9	61 ± 7	68 ± 8	58 ± 7	51 ± 6
Lead	EG005T	5	mg/kg	----	1500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	1000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	3000	173 ± 17	158 ± 16	162 ± 16	175 ± 17	167 ± 16
Selenium	EG005T	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	180	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	500	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	35000	121 ± 13	109 ± 12	133 ± 14	118 ± 13	94 ± 10
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	220 ± 40	180 ± 40	190 ± 40	170 ± 40	180 ± 40
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	429_08_12_S	429_08_12_S	429_12_08_S	429_16_14_S	429_16_18_S
						S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
						EM2207719-001 MU	EM2207719-002 MU	EM2207719-005 MU	EM2207719-006 MU	EM2207719-007 MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_IB_20220	SX_IB_20220	SX_OB_20220	SX_OB_20220
				Lower Limit	Upper Limit	429_08_12_S	429_08_12_S	429_12_08_S	429_16_14_S	429_16_18_S
						S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS
				Guideline	Guideline	29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
						EM2207719-001 MU	EM2207719-002 MU	EM2207719-005 MU	EM2207719-006 MU	EM2207719-007 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	8.9 ± 0.1	8.8 ± 0.1	8.8 ± 0.1	7.6 ± 0.1	7.7 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	29 ± 4	21 ± 3	21 ± 3	38 ± 5	40 ± 5
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	100	73 ± 9	61 ± 7	68 ± 8	58 ± 7	51 ± 6
Lead	EG005T	5	mg/kg	----	300	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Molybdenum	EG005T	5	mg/kg	----	40	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	60	173 ± 17	158 ± 16	162 ± 16	175 ± 17	167 ± 16
Selenium	EG005T	5	mg/kg	----	10	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Silver	EG005T	2	mg/kg	----	10	<2 ..	<2 ..	<2 ..	<2 ..	<2 ..
Tin	EG005T	10	mg/kg	----	50	<10 ..	<10 ..	<10 ..	<10 ..	<10 ..
Zinc	EG005T	5	mg/kg	----	200	121 ± 13	109 ± 12	133 ± 14	118 ± 13	94 ± 10
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	220 ± 40	180 ± 40	190 ± 40	170 ± 40	180 ± 40
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	1	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..	<0.2 ..
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	1	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..
EP075A: Phenolic Compounds (Non-halogenated)										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220 429_08_12_S S_Primary_AL S	SX_IB_20220 429_08_12_S S_Duplicate_ ALS	SX_IB_20220 429_12_08_S S_Primary_AL S	SX_OB_20220 429_16_14_S S_Triplicate_ ALS	SX_OB_20220 429_16_18_S S_Primary_AL S
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						29-Apr-2022 08:12	29-Apr-2022 08:12	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18
						EM2207719-001 MU	EM2207719-002 MU	EM2207719-005 MU	EM2207719-006 MU	EM2207719-007 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Lower Limit	Upper Limit	429_20_00_S	430_00_05_S	430_04_05_S	429_08_12_S	429_08_12_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Guideline	Guideline	29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
						EM2207719-008 MU	EM2207719-009 MU	EM2207719-010 MU	EM2207719-011 MU	EM2207719-012 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	7.6 ± 0.1	7.6 ± 0.1	7.6 ± 0.1	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	33 ± 4	28 ± 4	20 ± 3	----	----
Cadmium	EG005T	1	mg/kg	----	400	1 ± 0.2	1 ± 0.2	<1	----	----
Copper	EG005T	5	mg/kg	----	20000	66 ± 8	65 ± 8	64 ± 8	----	----
Lead	EG005T	5	mg/kg	----	6000	<5	<5	<5	----	----
Molybdenum	EG005T	5	mg/kg	----	4000	<5	<5	<5	----	----
Nickel	EG005T	5	mg/kg	----	12000	198 ± 20	177 ± 17	178 ± 17	----	----
Selenium	EG005T	5	mg/kg	----	200	<5	<5	<5	----	----
Silver	EG005T	2	mg/kg	----	720	<2	<2	<2	----	----
Zinc	EG005T	5	mg/kg	----	140000	127 ± 14	114 ± 12	116 ± 13	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	300	<0.1	<0.1	<0.1	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000	<1.0	<1.0	<1.0	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	10000	<5	<5	<5	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	40000	180 ± 40	150 ± 40	120 ± 30	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	16	<0.2	<0.2	<0.2	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	240	<0.5	<0.5	<0.5	----	----
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8	<0.50	<0.50	<0.50	----	----
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11	<0.50	<0.50	<0.50	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	50	<0.50	<0.50	<0.50	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320	<1.00	<1.00	<1.00	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20	<20	<20	----	----
EP075B: Polynuclear Aromatic Hydrocarbons										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	429_20_00_S	430_00_05_S	430_04_05_S	429_08_12_S	429_08_12_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
						EM2207719-008 MU	EM2207719-009 MU	EM2207719-010 MU	EM2207719-011 MU	EM2207719-012 MU
EP075B: Polynuclear Aromatic Hydrocarbons - Continued										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20	<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<0.5	<0.5	<0.5	----	----
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8	<0.05	<0.05	<0.05	----	----
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<0.30	<0.30	<0.30	----	----
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05	<0.05	<0.05	----	----
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<0.10	<0.10	<0.10	----	----
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50	<0.03	<0.03	<0.03	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20	<20	<20	----	----
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<50	<50	<50	----	----



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	429_20_00_S	430_00_05_S	430_04_05_S	429_08_12_S	429_08_12_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
						EM2207719-008 MU	EM2207719-009 MU	EM2207719-010 MU	EM2207719-011 MU	EM2207719-012 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.6 ± 0.1	7.6 ± 0.1	7.6 ± 0.1	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	33 ± 4	28 ± 4	20 ± 3	----	----
Cadmium	EG005T	1	mg/kg	----	100	1 ± 0.2	1 ± 0.2	<1 --	----	----
Copper	EG005T	5	mg/kg	----	5000	66 ± 8	65 ± 8	64 ± 8	----	----
Lead	EG005T	5	mg/kg	----	1500	<5 --	<5 --	<5 --	----	----
Molybdenum	EG005T	5	mg/kg	----	1000	<5 --	<5 --	<5 --	----	----
Nickel	EG005T	5	mg/kg	----	3000	198 ± 20	177 ± 17	178 ± 17	----	----
Selenium	EG005T	5	mg/kg	----	50	<5 --	<5 --	<5 --	----	----
Silver	EG005T	2	mg/kg	----	180	<2 --	<2 --	<2 --	----	----
Tin	EG005T	10	mg/kg	----	500	<10 --	<10 --	<10 --	----	----
Zinc	EG005T	5	mg/kg	----	35000	127 ± 14	114 ± 12	116 ± 13	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 --	<0.1 --	<0.1 --	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	<1.0 --	<1.0 --	<1.0 --	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 --	<5 --	<5 --	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	180 ± 40	150 ± 40	120 ± 30	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 --	<0.2 --	<0.2 --	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 --	<0.5 --	<0.5 --	----	----
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 --	<0.50 --	<0.50 --	----	----
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 --	<0.50 --	<0.50 --	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 --	<0.50 --	<0.50 --	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 --	<1.00 --	<1.00 --	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 --	<20 --	<20 --	----	----



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	429_20_00_S	430_00_05_S	430_04_05_S	429_08_12_S	429_08_12_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
						EM2207719-008 MU	EM2207719-009 MU	EM2207719-010 MU	EM2207719-011 MU	EM2207719-012 MU
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	----	----
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05	<0.05	<0.05	----	----
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30	<0.30	<0.30	----	----
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05	<0.05	<0.05	----	----
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10	<0.10	<0.10	----	----
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03	<0.03	<0.03	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20	<20	<20	----	----
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50	<50	<50	----	----



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	429_20_00_S	430_00_05_S	430_04_05_S	429_08_12_S	429_08_12_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
						EM2207719-008 MU	EM2207719-009 MU	EM2207719-010 MU	EM2207719-011 MU	EM2207719-012 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.6 ± 0.1	7.6 ± 0.1	7.6 ± 0.1	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	33 ± 4	28 ± 4	20 ± 3	----	----
Cadmium	EG005T	1	mg/kg	----	3	1 ± 0.2	1 ± 0.2	<1 --	----	----
Copper	EG005T	5	mg/kg	----	100	66 ± 8	65 ± 8	64 ± 8	----	----
Lead	EG005T	5	mg/kg	----	300	<5 --	<5 --	<5 --	----	----
Molybdenum	EG005T	5	mg/kg	----	40	<5 --	<5 --	<5 --	----	----
Nickel	EG005T	5	mg/kg	----	60	198 ± 20	177 ± 17	178 ± 17	----	----
Selenium	EG005T	5	mg/kg	----	10	<5 --	<5 --	<5 --	----	----
Silver	EG005T	2	mg/kg	----	10	<2 --	<2 --	<2 --	----	----
Tin	EG005T	10	mg/kg	----	50	<10 --	<10 --	<10 --	----	----
Zinc	EG005T	5	mg/kg	----	200	127 ± 14	114 ± 12	116 ± 13	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 --	<0.1 --	<0.1 --	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	<1.0 --	<1.0 --	<1.0 --	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 --	<5 --	<5 --	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	180 ± 40	150 ± 40	120 ± 30	----	----
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<0.1 --	<0.1 --	<0.1 --	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	1	<0.2 --	<0.2 --	<0.2 --	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<0.5 --	<0.5 --	<0.5 --	----	----
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	1	<0.50 --	<0.50 --	<0.50 --	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<1.00 --	<1.00 --	<1.00 --	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20 --	<20 --	<20 --	----	----



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_IB_20220	SX_IB_20220
				Guideline	Guideline	429_20_00_S	430_00_05_S	430_04_05_S	429_08_12_S	429_08_12_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	29-Apr-2022 20:00	30-Apr-2022 00:05	30-Apr-2022 04:05	29-Apr-2022 08:12	29-Apr-2022 08:12
						EM2207719-008 MU	EM2207719-009 MU	EM2207719-010 MU	EM2207719-011 MU	EM2207719-012 MU
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5 ..	<0.5 ..	<0.5 ..	----	----
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5 ..	<0.5 ..	<0.5 ..	----	----
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10 ..	<0.10 ..	<0.10 ..	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20 ..	<20 ..	<20 ..	----	----
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50 ..	<50 ..	<50 ..	----	----



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_IB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	429_12_08_S	429_16_14_S	429_16_18_S	429_20_00_S	430_00_05_S
						S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	29-Apr-2022 12:08	29-Apr-2022 16:14	29-Apr-2022 16:18	29-Apr-2022 20:00	30-Apr-2022 00:05
						EM2207719-013 MU	EM2207719-014 MU	EM2207719-015 MU	EM2207719-016 MU	EM2207719-017 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	----	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	----	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons										



Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: SOIL

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220 430_04_05_S S_Primary_AL S	----	----	----	----
				Guideline	Guideline					
				Lower Limit	Upper Limit	30-Apr-2022 04:05	----	----	----	----
				EM2207719-018 MU						
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	----	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	----	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons										

QUALITY CONTROL REPORT

Work Order	: EM2207719	Page	: 1 of 30
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Contact	: Josh Alexander
Address	: D1.1 63-85 TURNER STREET PORT MELBOURNE 3207	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61-3-8549 9600
Project	: JC0927	Date Samples Received	: 30-Apr-2022
Order number	: ----	Date Analysis Commenced	: 02-May-2022
C-O-C number	: 20220430052429-ALS-12	Issue Date	: 06-May-2022
Sampler	: Martha Agon / Toby Gray		
Site	: 20220430052429-ALS-12		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 18		
No. of samples analysed	: 18		



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4315474)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	86	90	4.4	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	173	167	3.8	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	29	24	19.9	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	73	64	12.1	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	121	116	4.3	0% - 20%		
EM2207807-002	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	82	80	2.3	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	167	154	7.8	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	22	20	9.4	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	59	54	8.2	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	118	114	3.0	0% - 20%		

EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4317687)



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)	
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4317687) - continued										
EM2207664-001	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.4	7.5	0.0	0% - 20%	
EM2207719-006	SX_OB_20220429_16_14_ SS_Triplicate_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.6	7.6	0.0	0% - 20%	
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4315804)										
EM2207664-001	Anonymous	EA055: Moisture Content	----	0.1	%	34.1	31.0	9.5	0% - 20%	
EM2207719-007	SX_OB_20220429_16_18_ SS_Primary_ALS	EA055: Moisture Content	----	0.1	%	29.4	25.5	14.2	0% - 20%	
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4315475)										
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit	
EM2207807-002	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit	
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4316693)										
EM2207664-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit	
EM2207719-006	SX_OB_20220429_16_14_ SS_Triplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit	
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4319100)										
EM2207664-003	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit	
EM2207719-007	SX_OB_20220429_16_18_ SS_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit	
EK040T: Fluoride Total (QC Lot: 4316697)										
EM2207664-001	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	210	180	12.6	No Limit	
EM2207719-006	SX_OB_20220429_16_14_ SS_Triplicate_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	170	150	13.8	No Limit	
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4316040)										
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit	
EM2207807-003	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit	
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4313449)										
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit	
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
		EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
			106-42-3							
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
	EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit		
EP074H: Naphthalene (QC Lot: 4313449)										
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit	



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074I: Volatile Halogenated Compounds (QC Lot: 4313449)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit		
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit		
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4316042)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit
EM2207807-003	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4316042) - continued									
EM2207807-003	Anonymous	EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
			0-2						
		EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4316042)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EM2207807-003	Anonymous	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4316042)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4316042) - continued									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit
EM2207807-003	Anonymous	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit		
EP075I: Organochlorine Pesticides (QC Lot: 4316042)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075I: Organochlorine Pesticides (QC Lot: 4316042) - continued									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP075-EM: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EM2207807-003	Anonymous	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4313449)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4316041)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2207807-003	Anonymous	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4313449)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4316041)									
EM2207719-001	SX_IB_20220429_08_12_S S_Primary_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2207807-003	Anonymous	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2207719-005	SX_IB_20220429_12_08_S S_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0002	0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2207719-005	SX_IB_20220429_12_08_S S_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4315022) - continued									
EM2207719-005	SX_IB_20220429_12_08_S S_Primary_ALS	EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2207719-005	SX_IB_20220429_12_08_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4315022) - continued									
EM2207535-002	Anonymous	EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2207719-005	SX_IB_20220429_12_08_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
EM2207719-005	SX_IB_20220429_12_08_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4316313)									
EM2207664-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2207719-006	SX_OB_20220429_16_14_ SS_Triplicate_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4316351)									
EM2207664-014	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)		
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4316351) - continued											
EM2207664-014	Anonymous	EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EM2207787-007	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.14	0.16	9.8	0% - 50%		
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.26	0.30	12.7	0% - 20%		
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.14	0.13	0.0	No Limit		
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	0.10	0.10	0.0	No Limit		
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4320960)											
EM2207664-005	Anonymous	EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4316313)											
EM2207664-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit		
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
		EM2207719-006	SX_OB_20220429_16_14_SS_Triplicate_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
				EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4			0.02	µg/L	<0.02	<0.02	0.0	No Limit		



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4316313) - continued									
EM2207719-006	SX_OB_20220429_16_14_ SS_Triplicate_ALS	EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4316351)									
EM2207664-014	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
		EM2207787-007	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3			0.02	µg/L	0.04	0.05	0.0	No Limit
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4			0.02	µg/L	0.30	0.29	0.0	0% - 50%
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorononanoic acid (PFNA)	375-95-1			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7			0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4			0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4320960)									
EM2207664-005	Anonymous	EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4320960) - continued									
EM2207664-005	Anonymous	EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.10	<0.10	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4316313)									
EM2207664-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207719-006	SX_OB_20220429_16_14_SS_Triplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4316351)									
EM2207664-014	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4316351) - continued									
EM2207664-014	Anonymous	EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207787-007	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4320960)									
EM2207664-005	Anonymous	EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4316313)									
EM2207664-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4316313) - continued									
EM2207664-001	Anonymous	EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207719-006	SX_OB_20220429_16_14_SS_Triplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4316351)									
EM2207664-014	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207787-007	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4320960)									
EM2207664-005	Anonymous	EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4316313)									
EM2207664-001	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit

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 Work Order : EM2207719
 Client : AGON ENVIRONMENTAL PTY LTD
 Project : JC0927



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231P: PFAS Sums (QC Lot: 4316313) - continued									
EM2207719-006	SX_OB_20220429_16_14_ SS_Triplicate_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4316351)									
EM2207664-014	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EM2207787-007	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	0.98	1.03	5.0	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.40	0.46	14.0	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	0.88	0.93	5.5	0% - 20%
EP231P: PFAS Sums (QC Lot: 4320960)									
EM2207664-005	Anonymous	EP231X-INJ: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X-INJ: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X-INJ: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4315474)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	97.2	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	58.1	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	95.8	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	90.4	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	90.7	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	89.6	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	91.5	70.0	130
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.9 mg/kg	88.9	70.0	130
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	83.3	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	72.2	70.0	130
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4314376)								
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.1	----	----	----	----
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4317687)								
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	100	98.8	101
					7 pH Unit	100	99.3	101
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4315475)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	95.3	70.0	130
EG048G: Hexavalent Chromium (Alkaline Digest) (QCLot: 4316693)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	79.4	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4319100)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	77.3	70.0	130
EK040T: Fluoride Total (QCLot: 4316697)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	92.5	75.2	110
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4316040)								
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	102	67.4	136
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4313449)								
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	89.8	69.2	116
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	89.9	67.7	116
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	90.4	66.6	115
EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4.2 mg/kg	88.6	65.2	112
	106-42-3							
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	90.8	69.4	111



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4313449) - continued									
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	89.2	68.4	110	
EP074H: Naphthalene (QCLot: 4313449)									
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	87.3	72.3	114	
EP074I: Volatile Halogenated Compounds (QCLot: 4313449)									
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	57.2	47.0	138	
EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	84.0	57.6	125	
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	90.6	72.3	115	
EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	91.0	60.5	122	
EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	88.8	70.3	112	
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	90.4	66.6	115	
EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	87.8	64.4	122	
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	83.0	58.4	127	
EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	95.2	72.9	114	
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	91.0	64.7	115	
EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	93.7	72.6	116	
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	86.0	60.0	119	
EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	84.4	71.8	116	
EP074-UT: 1,1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	94.6	66.1	116	
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	93.6	39.8	128	
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	91.3	70.3	113	
EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	89.1	62.6	113	
EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	90.6	70.8	110	
EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	102	48.4	120	
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4316042)									
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	82.6	74.5	126	
EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	84.2	72.7	126	
EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	84.4	73.5	132	
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	92.5	72.8	128	
EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	83.6	73.3	134	
EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	82.6	72.4	128	
EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	88.1	69.4	126	
EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/5 8-90-2	0.05	mg/kg	<0.05	4 mg/kg	92.3	71.9	128	
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	84.0	54.4	135	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4316042)									
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	89.8	71.5	130	
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	84.2	73.4	129	
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	82.5	74.3	129	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4316042) - continued								
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	80.8	70.9	133
EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	85.6	71.8	132
EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	72.6	41.0	156
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	87.5	65.3	134
EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	78.0	43.6	128
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	83.0	62.0	128
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	77.8	34.5	137
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4316042)								
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	86.0	73.0	131
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	89.2	76.3	130
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	90.4	72.0	135
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	90.9	74.4	131
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	84.8	73.3	130
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	83.9	78.4	127
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	87.3	75.3	132
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	89.6	75.4	130
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	89.9	69.6	133
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	93.4	75.0	133
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	4 mg/kg	102	75.8	133
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	98.3	65.1	130
EP075-EM: Indeno(1,2,3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	87.1	72.1	134
EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	87.0	72.9	135
EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	88.9	71.3	134
EP075I: Organochlorine Pesticides (QCLot: 4316042)								
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	85.2	71.0	129
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	84.0	74.8	126
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	93.1	75.7	130
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	86.4	70.8	130
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	87.4	76.5	134
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	87.7	75.5	131
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	91.7	76.8	130
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	84.8	73.6	130
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	89.1	75.0	133
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	89.4	75.3	131
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	85.8	69.4	134
EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	89.4	71.0	132
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	89.0	78.0	133
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	77.2	69.0	143



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075I: Organochlorine Pesticides (QCLot: 4316042) - continued									
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	94.2	55.7	145	
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	82.9	71.4	135	
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	89.2	74.8	134	
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	87.2	70.2	135	
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	87.8	77.7	133	
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	91.3	63.6	135	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4313449)									
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	88.7	61.1	119	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4316041)									
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	670 mg/kg	110	74.4	129	
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	2860 mg/kg	110	81.0	123	
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1490 mg/kg	102	81.8	121	
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	108	70.0	130	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4313449)									
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	88.6	59.9	119	
EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4316041)									
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1000 mg/kg	105	75.4	132	
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	3770 mg/kg	112	80.8	120	
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	119	73.3	136	
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	111	70.0	130	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4315022)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	94.1	72.0	128	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	89.0	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	70.1	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	96.7	70.0	132	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	88.6	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	85.7	59.0	134	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4315022)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	79.2	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.8	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.0	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.0	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.3	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	102	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	77.7	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.8	64.0	136	



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4315022) - continued									
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.8	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	75.6	66.0	139	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	92.1	69.0	133	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4315022)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.0	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	89.1	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	80.6	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	77.1	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.7	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.2	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.4	61.0	139	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4315022)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	98.6	62.0	145	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	94.0	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	106	65.0	137	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	102	70.0	130	
EP231P: PFAS Sums (QCLot: 4315022)									
EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4316313)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	91.5	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	87.7	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	87.2	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	84.2	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	102	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	93.4	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4316351)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	86.8	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	108	71.0	127	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4316351) - continued									
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	98.4	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	121	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	98.8	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	104	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4320960)									
EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.444 µg/L	84.8	72.0	130	
EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.47 µg/L	90.3	71.0	127	
EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.457 µg/L	79.7	68.0	131	
EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.477 µg/L	92.5	69.0	134	
EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.465 µg/L	84.5	65.0	140	
EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.482 µg/L	86.1	53.0	142	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4316313)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	83.3	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	90.9	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	90.0	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	93.3	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	90.6	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	95.0	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	98.6	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	95.5	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	96.5	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	90.4	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	89.6	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4316351)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	86.6	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	86.9	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	112	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	89.4	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	86.5	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	100	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	86.3	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	78.0	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	91.0	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	85.1	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	124	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4320960)									
EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.10	2.5 µg/L	78.8	73.0	129	
EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.5 µg/L	90.4	72.0	129	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4320960) - continued									
EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.5 µg/L	89.8	72.0	129	
EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.5 µg/L	92.0	72.0	130	
EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.5 µg/L	86.5	71.0	133	
EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.5 µg/L	99.2	69.0	130	
EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.5 µg/L	81.4	71.0	129	
EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.5 µg/L	93.5	69.0	133	
EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.5 µg/L	89.3	72.0	134	
EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.5 µg/L	82.3	65.0	144	
EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	1.25 µg/L	92.4	71.0	132	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4316313)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	99.7	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	105	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	96.1	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	96.6	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	93.4	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	93.4	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	93.5	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4316351)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	91.9	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	115	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	112	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.8	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	99.9	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	106	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	102	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4320960)									
EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.5 µg/L	87.6	67.0	137	
EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	1.25 µg/L	88.3	68.0	141	
EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	1.25 µg/L	83.8	70.0	130	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)		
					LCS	Low	High		
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4320960) - continued									
EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	1.25 µg/L	74.3	70.0	130	
EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	1.25 µg/L	85.3	70.0	130	
EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.5 µg/L	99.3	65.0	136	
EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.5 µg/L	93.5	61.0	135	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4316313)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	98.8	63.0	143	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	93.1	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	105	67.0	138	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	83.4	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4316351)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	92.8	63.0	143	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	106	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	104	67.0	138	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	79.2	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4320960)									
EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.469 µg/L	92.7	63.0	143	
EP231X-INJ: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.476 µg/L	90.3	64.0	140	
EP231X-INJ: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.48 µg/L	98.9	67.0	138	
EP231X-INJ: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.483 µg/L	89.9	70.0	130	
EP231P: PFAS Sums (QCLot: 4316313)									
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----	
EP231P: PFAS Sums (QCLot: 4316351)									
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----	
EP231P: PFAS Sums (QCLot: 4320960)									
EP231X-INJ: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----	
EP231X-INJ: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----	
EP231X-INJ: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----	



Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4315474)							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	95.4	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	88.3	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	94.4	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	96.4	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	89.2	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	83.0	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	83.4	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4315475)							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	106	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4316693)							
EM2207664-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	87.3	58.0	114
EM2207664-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	101	58.0	114
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4319100)							
EM2207664-009	Anonymous	EK026SF: Total Cyanide	57-12-5	20 mg/kg	79.6	70.0	130
EK040T: Fluoride Total (QCLot: 4316697)							
EM2207664-002	Anonymous	EK040T: Fluoride	16984-48-8	400 mg/kg	76.8	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4316040)							
EM2207719-005	SX_IB_20220429_12_08_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	100	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4313449)							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	67.3	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	75.3	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4313449)							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	2 mg/kg	41.3	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	63.1	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	75.4	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4316042)							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	87.1	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	95.4	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	77.7	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4316042)							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EP075-EM: Phenol	108-95-2	3 mg/kg	92.5	44.2	134



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4316042) - continued							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	78.8	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4316042)							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	83.5	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	88.5	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4313449)							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	74.6	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4316041)							
EM2207719-006	SX_OB_20220429_16_14_SS_Triplicate_ALS	EP071-EM: C10 - C14 Fraction	----	670 mg/kg	110	71.3	126
		EP071-EM: C15 - C28 Fraction	----	2860 mg/kg	108	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1490 mg/kg	99.0	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5020 mg/kg	105	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4313449)							
EM2207719-002	SX_IB_20220429_08_12_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	75.2	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4316041)							
EM2207719-006	SX_OB_20220429_16_14_SS_Triplicate_ALS	EP071-EM: >C10 - C16 Fraction	----	1000 mg/kg	104	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	3770 mg/kg	110	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	250 mg/kg	115	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5020 mg/kg	109	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4315022)							
EM2207617-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	87.0	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	75.8	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	91.4	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	101	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	95.5	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	84.5	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4315022)							
EM2207617-001	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	76.3	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	91.0	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	88.4	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	91.7	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	88.3	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	106	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	74.0	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	84.1	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	85.7	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	73.2	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	89.2	69.0	133



Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4315022)							
EM2207617-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	93.2	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	85.7	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	74.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	78.5	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	85.1	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	91.8	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	85.2	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4315022)							
EM2207617-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	98.1	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	95.9	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	97.6	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	76.4	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4316313)							
EM2207664-002	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	94.4	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	83.8	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	89.9	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	88.3	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	110	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	118	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4316351)							
EM2207664-015	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	94.4	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	111	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	105	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	120	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	98.6	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	92.9	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4320960)							
EM2207664-006	Anonymous	EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.444 µg/L	91.3	72.0	130
		EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.47 µg/L	87.6	71.0	127
		EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.457 µg/L	78.5	68.0	131



Sub-Matrix: WATER

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report					
				Spike Concentration	Spike Recovery(%) MS	Acceptable Limits (%)			
						Low	High		
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4320960) - continued									
EM2207664-006	Anonymous	EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.477 µg/L	94.0	69.0	134		
		EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.465 µg/L	89.6	65.0	140		
		EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.482 µg/L	86.4	53.0	142		
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4316313)									
EM2207664-002	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	83.3	73.0	129		
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	97.5	72.0	129		
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	103	72.0	129		
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	102	72.0	130		
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	94.1	71.0	133		
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	93.0	69.0	130		
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	101	71.0	129		
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	96.6	69.0	133		
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	94.9	72.0	134		
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.25 µg/L	96.0	65.0	144		
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	94.9	71.0	132		
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4316351)									
EM2207664-015	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	84.4	73.0	129		
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	88.2	72.0	129		
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	105	72.0	129		
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	98.8	72.0	130		
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	82.3	71.0	133		
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	98.0	69.0	130		
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	94.0	71.0	129		
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	74.1	69.0	133		
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	88.4	72.0	134		
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.25 µg/L	67.5	65.0	144		
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	85.6	71.0	132		
		EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4320960)							
		EM2207664-006	Anonymous	EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	2.5 µg/L	81.7	73.0	129
EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3			0.5 µg/L	91.9	72.0	129		
EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4			0.5 µg/L	92.0	72.0	129		
EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9			0.5 µg/L	94.7	72.0	130		
EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1			0.5 µg/L	90.7	71.0	133		
EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1			0.5 µg/L	105	69.0	130		
EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2			0.5 µg/L	85.0	71.0	129		
EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8			0.5 µg/L	93.1	69.0	133		
EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1			0.5 µg/L	95.7	72.0	134		
EP231X-INJ: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8			0.5 µg/L	86.6	65.0	144		



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4320960) - continued							
EM2207664-006	Anonymous	EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	1.25 µg/L	94.1	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4316313)							
EM2207664-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	109	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	101	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	107	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	94.7	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	99.5	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	91.5	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	101	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4316351)							
EM2207664-015	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	96.5	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	70.3	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	76.5	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	89.1	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	91.3	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	84.9	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	86.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4320960)							
EM2207664-006	Anonymous	EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.5 µg/L	92.1	67.0	137
		EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	1.25 µg/L	93.0	68.0	141
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	1.25 µg/L	82.5	70.0	130
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	1.25 µg/L	76.9	70.0	130
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	1.25 µg/L	85.5	70.0	130
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.5 µg/L	100	65.0	136



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4320960) - continued							
EM2207664-006	Anonymous	EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.5 µg/L	94.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4316313)							
EM2207664-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	94.3	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	95.9	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	101	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	71.9	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4316351)							
EM2207664-015	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	98.8	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	110	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	107	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# 51.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4320960)							
EM2207664-006	Anonymous	EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.469 µg/L	101	63.0	143
		EP231X-INJ: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.476 µg/L	103	64.0	140
		EP231X-INJ: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.48 µg/L	101	67.0	138
		EP231X-INJ: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.483 µg/L	87.1	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EM2207719	Page	: 1 of 13
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Telephone	: +61-3-8549 9600
Project	: JC0927	Date Samples Received	: 30-Apr-2022
Site	: 20220430052429-ALS-12	Issue Date	: 06-May-2022
Sampler	: Martha Agon / Toby Gray	No. of samples received	: 18
Order number	: ----	No. of samples analysed	: 18

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- **NO** Laboratory Control outliers occur.
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2207664--015	Anonymous	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	51.7 %	70.0-130%	Recovery less than lower data quality objective

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA001: pH in soil using 0.01M CaCl extract								
Soil Glass Jar - Unpreserved (EA001)	29-Apr-2022	04-May-2022	06-May-2022	✔	04-May-2022	04-May-2022	✔	
SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,								SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS
Soil Glass Jar - Unpreserved (EA001)								SX_OB_20220430_04_05_SS_Primary_ALS
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)	29-Apr-2022	----	----	----	03-May-2022	13-May-2022	✔	
SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,								SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS
Soil Glass Jar - Unpreserved (EA055)								SX_OB_20220430_04_05_SS_Primary_ALS
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)	29-Apr-2022	03-May-2022	26-Oct-2022	✔	04-May-2022	26-Oct-2022	✔	
SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,								SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS
Soil Glass Jar - Unpreserved (EG005T)								SX_OB_20220430_04_05_SS_Primary_ALS



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	03-May-2022	27-May-2022	✓	04-May-2022	27-May-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	03-May-2022	28-May-2022	✓	04-May-2022	28-May-2022	✓
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	03-May-2022	27-May-2022	✓	04-May-2022	10-May-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	03-May-2022	28-May-2022	✓	04-May-2022	10-May-2022	✓
EK026SF: Total CN by Segmented Flow Analyser								
Soil Glass Jar - Unpreserved (EK026SF) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	04-May-2022	13-May-2022	✓	05-May-2022	18-May-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	04-May-2022	14-May-2022	✓	05-May-2022	18-May-2022	✓
EK040T: Fluoride Total								
Soil Glass Jar - Unpreserved (EK040T) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	04-May-2022	27-May-2022	✓	06-May-2022	27-May-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	04-May-2022	28-May-2022	✓	06-May-2022	28-May-2022	✓
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)								
SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	02-May-2022	26-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	02-May-2022	27-Oct-2022	✓	----	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P)								
SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	02-May-2022	26-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	02-May-2022	27-Oct-2022	✓	----	----	----



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066-EM) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	04-May-2022	13-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	02-May-2022	06-May-2022	✓	02-May-2022	06-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	02-May-2022	07-May-2022	✓	02-May-2022	07-May-2022	✓
EP074H: Naphthalene								
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	02-May-2022	06-May-2022	✓	02-May-2022	06-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	02-May-2022	07-May-2022	✓	02-May-2022	07-May-2022	✓
EP074I: Volatile Halogenated Compounds								
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	02-May-2022	06-May-2022	✓	02-May-2022	06-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	02-May-2022	07-May-2022	✓	02-May-2022	07-May-2022	✓
EP075A: Phenolic Compounds (Halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	04-May-2022	13-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓
EP075A: Phenolic Compounds (Non-halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	04-May-2022	13-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	04-May-2022	13-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	04-May-2022	13-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	02-May-2022	06-May-2022	✓	02-May-2022	06-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	04-May-2022	13-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	02-May-2022	07-May-2022	✓	02-May-2022	07-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	02-May-2022	06-May-2022	✓	02-May-2022	06-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	04-May-2022	13-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	02-May-2022	07-May-2022	✓	02-May-2022	07-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓



Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	03-May-2022	26-Oct-2022	✓	04-May-2022	12-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	03-May-2022	27-Oct-2022	✓	04-May-2022	12-Jun-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	03-May-2022	26-Oct-2022	✓	04-May-2022	12-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	03-May-2022	27-Oct-2022	✓	04-May-2022	12-Jun-2022	✓
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	03-May-2022	26-Oct-2022	✓	04-May-2022	12-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	03-May-2022	27-Oct-2022	✓	04-May-2022	12-Jun-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	03-May-2022	26-Oct-2022	✓	04-May-2022	12-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	03-May-2022	27-Oct-2022	✓	04-May-2022	12-Jun-2022	✓
EP231P: PFAS Sums								
HDPE Soil Jar (EP231X) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS	29-Apr-2022	03-May-2022	26-Oct-2022	✓	04-May-2022	12-Jun-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220430_00_05_SS_Primary_ALS,	SX_OB_20220430_04_05_SS_Primary_ALS	30-Apr-2022	03-May-2022	27-Oct-2022	✓	04-May-2022	12-Jun-2022	✓

Matrix: **WATER**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation



Matrix: **WATER** Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE (no PTFE) (EP231X) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS	02-May-2022	03-May-2022	29-Oct-2022	✓	03-May-2022	29-Oct-2022	✓
HDPE (no PTFE) (EP231X-INJ) SX_IB_20220429_08_20_SR_Rinsate_ALS,	SX_IB_20220429_08_23_SB_Blank_ALS	29-Apr-2022	05-May-2022	26-Oct-2022	✓	05-May-2022	26-Oct-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS	02-May-2022	03-May-2022	29-Oct-2022	✓	03-May-2022	29-Oct-2022	✓
HDPE (no PTFE) (EP231X-INJ) SX_IB_20220429_08_20_SR_Rinsate_ALS,	SX_IB_20220429_08_23_SB_Blank_ALS	29-Apr-2022	05-May-2022	26-Oct-2022	✓	05-May-2022	26-Oct-2022	✓
EP231C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X) SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS	02-May-2022	03-May-2022	29-Oct-2022	✓	03-May-2022	29-Oct-2022	✓
HDPE (no PTFE) (EP231X-INJ) SX_IB_20220429_08_20_SR_Rinsate_ALS,	SX_IB_20220429_08_23_SB_Blank_ALS	29-Apr-2022	05-May-2022	26-Oct-2022	✓	05-May-2022	26-Oct-2022	✓



Matrix: **WATER** Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS	02-May-2022	03-May-2022	29-Oct-2022	✓	03-May-2022	29-Oct-2022	✓
HDPE (no PTFE) (EP231X-INJ)								
SX_IB_20220429_08_20_SR_Rinsate_ALS,	SX_IB_20220429_08_23_SB_Blank_ALS	29-Apr-2022	05-May-2022	26-Oct-2022	✓	05-May-2022	26-Oct-2022	✓
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X)								
SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Primary_ALS, SX_IB_20220429_12_08_SS_Primary_ALS, SX_OB_20220429_16_18_SS_Primary_ALS, SX_OB_20220430_00_05_SS_Primary_ALS,	SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS, SX_IB_20220429_08_12_SS_Duplicate_ALS, SX_OB_20220429_16_14_SS_Triplicate_ALS, SX_OB_20220429_20_00_SS_Primary_ALS, SX_OB_20220430_04_05_SS_Primary_ALS	02-May-2022	03-May-2022	29-Oct-2022	✓	03-May-2022	29-Oct-2022	✓
HDPE (no PTFE) (EP231X-INJ)								
SX_IB_20220429_08_20_SR_Rinsate_ALS,	SX_IB_20220429_08_23_SB_Blank_ALS	29-Apr-2022	05-May-2022	26-Oct-2022	✓	05-May-2022	26-Oct-2022	✓



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Matrix: **SOIL** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reular	Actual	Expected	Evaluation	
Analytical Methods							
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	34	11.76	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	9	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	34	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	34	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	34	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl ₂ extract	EA001	SOIL	In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Total Cyanide by Segmented Flow Analyser	EK026SF	SOIL	In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3).
Total Fluoride	EK040T	SOIL	(In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.
PCB - VIC EPA 448.3 Screen	EP066-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071-EM	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
Volatile Organic Compounds - Ultra-trace	EP074-UT	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).



Analytical Methods	Method	Matrix	Method Descriptions
Volatile Organic Compounds - Ultra-trace - Summations	EP074-UT-SUM	SOIL	Summation of MAHs and VHCs
Semivolatile Organic Compounds - Waste Classification	EP075-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
SVOC - Waste Classification (Sums)	EP075-EM-SUM	SOIL	Summations for EP075 (EM variation)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	WATER	In house: Direct injection analysis of fresh waters after dilution (1:1) with mobile phase solvent. Analysis by LC-Electrospray-MS-MS, Negative Mode using MRM. Where commercially available, isotopically labelled analogues of the target analytes are used as internal standards for quantification. Where a labelled analogue is not commercially available, the internal standard with similar chemistry and the closest retention time to the target is used for quantification. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers.

Preparation Methods	Method	Matrix	Method Descriptions
NaOH leach for CN in Soils	CN-PR	SOIL	In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.
pH in soil using a 0.01M CaCl ₂ extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Total Fluoride	EK040T-PR	SOIL	In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils - Ultra-trace.	ORG16-UT	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids - VIC EPA Screen	ORG17-EM	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
QuEChERS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	SOIL	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.
Preparation for PFAS in water.	EP231-PR	WATER	Method presumes direct injection without workup. Preparation includes addition of internal standard and surrogate, and filtration prior to analysis.

From: David Lawson <David.Lawson@agonenviro.com.au>
Sent: Monday, 9 May 2022 2:07 PM
To: Josh Alexander <josh.alexander@ALSGlobal.com>
Cc: Bronwyn Sheen <bronwyn.sheen@alsglobal.com>; ALS WGTP <ALS.WGTP@ALSGlobal.com>;
Craig Trimbur <Craig.Trimbur@eprisk.com.au>
Subject: [EXTERNAL] - Reissue EM2207807 with spelling correction

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

Hi Josh,

Can you please reissue report EM2207807 with the following correction?

EM2207807004	SX_IB_20220430_11_51_SS_Primary_ALS
EM2207807031	SX_IB_20220430_11_51_SS_Primary_ALS

This sample was incorrectly labelled as outbound on the COC

Regards,

agon


ENVIRONMENTAL



David Lawson
Environmental Scientist

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CHAIN OF CUSTODY DOCUMENTATION											 Australian Laboratory Services Pty Ltd	
CLIENT: Agon Environmental							SAMPLER: WOH + TB + DL + LR					
ADDRESS / OFFICE: Melbourne							MOBILE 1: +61 400 828 907 (Craig Trimbur)					
PROJECT MANAGER (PM): Craig Trimbur							MOBILE 2: +61 490 411 004 (David Lawson)					
PROJECT ID: JC0827							EMAIL REPORT TO: Labreports.TST@agonenviro.com.au agonenvironmental@esdat.com.au motherhublabresults1@wgtp.com.au					
SITE: 20220502042154-ALS-21 P.O. NO.:							EMAIL INVOICE TO: (if different to report) Labreports.TST@agonenviro.com.au agonenvironmental@esdat.com.au					
RESULTS REQUIRED (Date): 5 days QUOTE NO.: ME-150-18 WGTP							ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)					
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:							Notes:					
SAMPLE INFORMATION (note: S = Soil, W=Water)							CONTAINER INFORMATION					
ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles	Spot Sample Prep	P16 plus Cr	PFAS 28 Extended suite	ASLP PFAS - Extended Suite (Lab to determine pH)	DI Leachate PFAS - Extended Suite	HOLD
28	1	SX_IB_20220430_07_47_SS_Primary_ALS	S	30/04/2022	07:47	Bucket	1	X	X	X	X	
29	2	SX_IB_20220430_07_51_SS_Duplicate_ALS	S	30/04/2022	07:51	Bucket	1	X	X	X	X	
30	3	SX_OB_20220430_08_01_SS_Primary_ALS	S	30/04/2022	08:01	Bucket	1	X	X	X	X	
31	4	SX_OB_20220430_11_51_SS_Primary_ALS	S	30/04/2022	11:51	Bucket	1	X	X	X	X	
32	5	SX_OB_20220430_11_56_SS_Primary_ALS	S	30/04/2022	11:55	Bucket	1	X	X	X	X	
33	6	SX_IB_20220430_15_52_SS_Primary_ALS	S	30/04/2022	15:52	Bucket	1	X	X	X	X	
34	7	SX_OB_20220430_15_58_SS_Triplicate_ALS	S	30/04/2022	15:58	Bucket	1	X	X	X	X	
35	8	SX_OB_20220430_16_02_SS_Primary_ALS	S	30/04/2022	16:02	Bucket	1	X	X	X	X	
36	9	SX_OB_20220430_20_08_SS_Primary_ALS	S	30/04/2022	20:08	Bucket	1	X	X	X	X	
	10	SX_OB_20220430_20_14_SR_Rinseate_ALS	W	30/04/2022	20:14	Bottle	1		X			
	11	SX_OB_20220430_20_15_SB_Blank_ALS	W	30/04/2022	20:15	Bottle	1		X			
37	12	SX_OB_20220501_00_12_SS_Primary_ALS	S	1/05/2022	00:12	Bucket	1	X	X	X	X	
38	13	SX_OB_20220501_04_13_SS_Primary_ALS	S	1/05/2022	04:13	Bucket	1	X	X	X	X	
39	14	SX_IB_20220501_08_17_SS_Primary_ALS	S	1/05/2022	8:17	Bucket	1	X	X	X	X	
40	15	SX_IB_20220501_08_20_SS_Duplicate_ALS	S	1/05/2022	8:20	Bucket	1	X	X	X	X	
41	16	SX_IB_20220501_12_15_SS_Primary_ALS	S	1/05/2022	12:15	Bucket	1	X	X	X	X	
42	17	SX_IB_20220501_12_21_SS_Primary_ALS	S	1/05/2022	12:21	Bucket	1	X	X	X	X	
43	18	SX_OB_20220501_12_24_SS_Primary_ALS	S	1/05/2022	12:24	Bucket	1	X	X	X	X	
44	19	SX_IB_20220501_18_12_SS_Primary_ALS	S	1/05/2022	18:12	Bucket	1	X	X	X	X	
45	20	SX_IB_20220501_18_18_SS_Primary_ALS	S	1/05/2022	18:18	Bucket	1	X	X	X	X	
46	21	SX_OB_20220501_18_24_SS_Triplicate_ALS	S	1/05/2022	18:24	Bucket	1	X	X	X	X	
47	22	SX_IB_20220501_19_49_SS_Primary_ALS	S	1/05/2022	19:49	Bucket	1	X	X	X	X	
48	23	SX_IB_20220501_19_58_SS_Primary_ALS	S	1/05/2022	19:58	Bucket	1	X	X	X	X	
	24	SX_IB_20220501_23_53_SS_Primary_ALS	S	1/05/2022	23:53	Bucket	1					x
49	25	SX_IB_20220501_23_56_SS_Primary_ALS	S	1/05/2022	23:56	Bucket	1	X	X	X	X	
	26	SX_IB_20220502_03_57_SS_Primary_ALS	S	2/05/2022	3:57	Bucket	1					x
50	27	SX_IB_20220502_04_06_SS_Primary_ALS	S	2/05/2022	4:06	Bucket	1	X	X	X	X	

Environmental Division
Melbourne
Work Order Reference
EM2207807



Telephone : 61-3-8549 9600

RELINQUISHED BY:				RECEIVED BY:				METHOD OF SHIPMENT	
Name:	Date:	Name:	Date:	Name:	Date:	Con' Note No:			
Of:	Time:	Of:	Time:	Of:	Time:	Transport Co:			
Name:	Date:	Name:	Date:	Name:	Date:	Transport Co:			
Of:	Time:	Of:	Time:	Of:	Time:	Transport Co:			

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved.
 V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; SG = Sulphuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass.
 Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CERTIFICATE OF ANALYSIS

Work Order : EM2207807 Amendment : 1 Client : AGON ENVIRONMENTAL PTY LTD Contact : DAVID LAWSON Address : D1.1 63-85 TURNER STREET PORT MELBOURNE 3207 Telephone : ---- Project : JC0927 Order number : ---- C-O-C number : 20220502042154-ALS-21 Sampler : WOH + TB + DL + LR Site : 20220502042154-ALS-21 Quote number : EN/150/19 -WGTP -Bulk Sample Quote No. of samples received : 50 No. of samples analysed : 48	Page : 1 of 65 Laboratory : Environmental Division Melbourne Contact : Josh Alexander Address : 4 Westall Rd Springvale VIC Australia 3171 Telephone : +61-3-8549 9600 Date Samples Received : 02-May-2022 11:55 Date Analysis Commenced : 02-May-2022 Issue Date : 09-May-2022 14:20
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Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP231X: Poor matrix spike recovery for sample EM2207807-029 due to sample matrix interference.
- EG048G: EM2207807 #6 result for hexavalent chromium has been confirmed by re-preparation and re-analysis.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP074-UT: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074-WF: Where reported, Sum of trichlorobenzenes is the sum of the reported concentrations of 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene, and 1,3,5-Trichlorobenzene at or above the LOR.
- Amendment (9/05/2022): This report has been amended as a result of a request to change sample identification numbers (IDs) received from David Lawson on 9/05/2022 for EM2207807 sample 004 and 031. All analysis results are as per the previous report.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.
- EN60-DI: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 07:47	30-Apr-2022 07:51	30-Apr-2022 08:01	30-Apr-2022 11:51	30-Apr-2022 11:55
Compound	CAS Number	LOR	Unit	EM2207807-001	EM2207807-002	EM2207807-003	EM2207807-004	EM2207807-005
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 07:47	30-Apr-2022 07:51	30-Apr-2022 08:01	30-Apr-2022 11:51	30-Apr-2022 11:55
Compound	CAS Number	LOR	Unit	EM2207807-001	EM2207807-002	EM2207807-003	EM2207807-004	EM2207807-005
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	97.8	93.2	104	95.7	92.0
13C8-PFOA	----	0.02	%	105	113	84.1	106	95.8



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:52	30-Apr-2022 15:58	30-Apr-2022 16:02	30-Apr-2022 20:08	01-May-2022 00:12
Compound	CAS Number	LOR	Unit	EM2207807-006	EM2207807-007	EM2207807-008	EM2207807-009	EM2207807-012
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:52	30-Apr-2022 15:58	30-Apr-2022 16:02	30-Apr-2022 20:08	01-May-2022 00:12
Compound	CAS Number	LOR	Unit	EM2207807-006	EM2207807-007	EM2207807-008	EM2207807-009	EM2207807-012
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	87.9	95.2	87.3	91.3	86.5
13C8-PFOA	----	0.02	%	96.0	87.0	99.6	85.6	98.5



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 04:13	01-May-2022 08:17	01-May-2022 08:20	01-May-2022 12:15	01-May-2022 12:21
Compound	CAS Number	LOR	Unit	EM2207807-013	EM2207807-014	EM2207807-015	EM2207807-016	EM2207807-017
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 04:13	01-May-2022 08:17	01-May-2022 08:20	01-May-2022 12:15	01-May-2022 12:21
Compound	CAS Number	LOR	Unit	EM2207807-013	EM2207807-014	EM2207807-015	EM2207807-016	EM2207807-017
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	74.4	93.0	92.7	77.9	90.3
13C8-PFOA	----	0.02	%	86.0	88.1	92.5	99.6	94.8



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 12:24	01-May-2022 16:12	01-May-2022 16:18	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-018	EM2207807-019	EM2207807-020	EM2207807-021	EM2207807-022
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 12:24	01-May-2022 16:12	01-May-2022 16:18	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-018	EM2207807-019	EM2207807-020	EM2207807-021	EM2207807-022
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	104	85.8	98.1	105	85.4
13C8-PFOA	----	0.02	%	102	98.8	91.1	90.5	96.7



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	----	----
		Sampling date / time		01-May-2022 19:58	01-May-2022 23:56	02-May-2022 15:00	----	----
Compound	CAS Number	LOR	Unit	EM2207807-023	EM2207807-025	EM2207807-027	-----	-----
				Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	----	----
				01-May-2022 19:58	01-May-2022 23:56	02-May-2022 15:00	----	----
Compound	CAS Number	LOR	Unit	EM2207807-023	EM2207807-025	EM2207807-027	-----	-----
				Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	93.4	89.7	95.4	----	----
13C8-PFOA	----	0.02	%	87.0	116	116	----	----



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-028	EM2207807-029	EM2207807-030	EM2207807-031	EM2207807-032
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-028	EM2207807-029	EM2207807-030	EM2207807-031	EM2207807-032
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	101	108	96.0	101	99.6
13C8-PFOA	----	0.02	%	95.1	91.3	91.9	89.3	89.4



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	01-May-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-033	EM2207807-034	EM2207807-035	EM2207807-036	EM2207807-037
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	01-May-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-033	EM2207807-034	EM2207807-035	EM2207807-036	EM2207807-037
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	103	95.9	103	98.5	105
13C8-PFOA	----	0.02	%	92.0	91.9	93.6	94.8	92.0



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-038	EM2207807-039	EM2207807-040	EM2207807-041	EM2207807-042
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-038	EM2207807-039	EM2207807-040	EM2207807-041	EM2207807-042
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	98.9	103	105	114	107
13C8-PFOA	----	0.02	%	96.6	93.8	93.8	95.7	97.2



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-043	EM2207807-044	EM2207807-045	EM2207807-046	EM2207807-047
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-043	EM2207807-044	EM2207807-045	EM2207807-046	EM2207807-047
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	99.0	105	110	97.9	110
13C8-PFOA	----	0.02	%	93.4	95.4	91.8	95.4	93.1



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	----	----
		Sampling date / time		01-May-2022 19:58	01-May-2022 23:56	02-May-2022 04:06	----	----
Compound	CAS Number	LOR	Unit	EM2207807-048	EM2207807-049	EM2207807-050	-----	-----
				Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	----	----
Sampling date / time				01-May-2022 19:58	01-May-2022 23:56	02-May-2022 04:06	----	----
Compound	CAS Number	LOR	Unit	EM2207807-048	EM2207807-049	EM2207807-050	-----	-----
				Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	110	108	107	----	----
13C8-PFOA	----	0.02	%	94.3	96.2	92.6	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 07:47	30-Apr-2022 07:51	30-Apr-2022 08:01	30-Apr-2022 11:51	30-Apr-2022 11:55
Compound	CAS Number	LOR	Unit	EM2207807-001	EM2207807-002	EM2207807-003	EM2207807-004	EM2207807-005
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl ₂)	----	0.1	pH Unit	8.9	8.9	7.5	8.7	7.6
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	29.4	30.6	29.3	29.9	25.8
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	20	22	23	20	12
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	80	82	113	72	99
Copper	7440-50-8	5	mg/kg	65	59	66	67	57
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	183	167	187	187	154
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	145	118	115	147	88
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	220	240	170	240	170
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.6	9.7	9.0	9.1	9.1
After HCl pH	----	0.1	pH Unit	1.6	1.5	1.5	1.5	1.4
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.2	5.2	5.2	5.3	5.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 07:47	30-Apr-2022 07:51	30-Apr-2022 08:01	30-Apr-2022 11:51	30-Apr-2022 11:55
Compound	CAS Number	LOR	Unit	EM2207807-001	EM2207807-002	EM2207807-003	EM2207807-004	EM2207807-005
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3	106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 07:47	30-Apr-2022 07:51	30-Apr-2022 08:01	30-Apr-2022 11:51	30-Apr-2022 11:55
Compound	CAS Number	LOR	Unit	EM2207807-001	EM2207807-002	EM2207807-003	EM2207807-004	EM2207807-005
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 07:47	30-Apr-2022 07:51	30-Apr-2022 08:01	30-Apr-2022 11:51	30-Apr-2022 11:55
Compound	CAS Number	LOR	Unit	EM2207807-001	EM2207807-002	EM2207807-003	EM2207807-004	EM2207807-005
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS	
Sampling date / time				30-Apr-2022 07:47	30-Apr-2022 07:51	30-Apr-2022 08:01	30-Apr-2022 11:51	30-Apr-2022 11:55		
Compound	CAS Number	LOR	Unit	EM2207807-001	EM2207807-002	EM2207807-003	EM2207807-004	EM2207807-005		
				Result	Result	Result	Result	Result		
EP075I: Organochlorine Pesticides - Continued										
^ Sum of other organochlorine pesticides				----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction				----	20	mg/kg	<20	<20	<20	<20
C10 - C14 Fraction				----	50	mg/kg	<50	<50	<50	<50
C6 - C10 Fraction				C6_C10	20	mg/kg	<20	<20	<20	<20
C15 - C28 Fraction				----	100	mg/kg	<100	<100	<100	<100
C29 - C36 Fraction				----	100	mg/kg	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)				----	50	mg/kg	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions										
>C10 - C16 Fraction				----	50	mg/kg	<50	<50	<50	<50
>C16 - C34 Fraction				----	100	mg/kg	<100	<100	<100	<100
>C34 - C40 Fraction				----	100	mg/kg	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)				----	50	mg/kg	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)				----	50	mg/kg	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)				C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids										
Perfluorobutane sulfonic acid (PFBS)				375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)				2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)				355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)				375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)				1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)				335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids										
Perfluorobutanoic acid (PFBA)				375-22-4	5	µg/kg	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)				2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)				307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)				375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 07:47	30-Apr-2022 07:51	30-Apr-2022 08:01	30-Apr-2022 11:51	30-Apr-2022 11:55	
Compound	CAS Number	LOR	Unit	EM2207807-001	EM2207807-002	EM2207807-003	EM2207807-004	EM2207807-005	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS	SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS
Sampling date / time				30-Apr-2022 07:47	30-Apr-2022 07:51	30-Apr-2022 08:01	30-Apr-2022 11:51	30-Apr-2022 11:55	
Compound	CAS Number	LOR	Unit	EM2207807-001	EM2207807-002	EM2207807-003	EM2207807-004	EM2207807-005	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	105	108	97.6	111	104	
EP074S: VOC Surrogates (Ultra-Trace)									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	79.6	85.5	98.8	92.1	92.2	
Toluene-D8	2037-26-5	0.1	%	78.6	82.3	101	94.8	94.9	
4-Bromofluorobenzene	460-00-4	0.1	%	89.1	90.5	108	102	102	
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%	87.9	88.9	84.2	93.0	90.7	
2-Chlorophenol-D4	93951-73-6	0.025	%	82.2	83.1	78.1	86.2	83.7	
2,4,6-Tribromophenol	118-79-6	0.025	%	75.6	76.3	70.1	78.2	75.4	
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%	87.6	87.7	84.6	92.4	91.3	
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	78.8	77.3	76.8	83.5	82.8	
2-Fluorobiphenyl	321-60-8	0.025	%	90.0	88.4	85.9	95.6	92.4	
Anthracene-d10	1719-06-8	0.025	%	82.9	84.9	78.3	87.5	85.3	
4-Terphenyl-d14	1718-51-0	0.025	%	86.2	89.3	83.2	91.9	89.9	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	118	118	124	120	110	
13C8-PFOA	----	0.0002	%	95.0	95.2	104	96.8	94.8	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:52	30-Apr-2022 15:58	30-Apr-2022 16:02	30-Apr-2022 20:08	01-May-2022 00:12
Compound	CAS Number	LOR	Unit	EM2207807-006	EM2207807-007	EM2207807-008	EM2207807-009	EM2207807-012
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	8.8	7.8	7.8	7.7	7.8
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	30.5	26.5	29.4	30.0	32.4
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	22	12	15	18	30
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	1	<1
Chromium	7440-47-3	5	mg/kg	85	115	127	135	114
Copper	7440-50-8	5	mg/kg	54	67	71	74	55
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	155	173	189	238	168
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	111	101	124	130	97
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	320	170	160	180	190
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	10.0	9.3	9.2	9.0	9.1
After HCl pH	----	0.1	pH Unit	1.5	1.4	4.5	1.4	1.5
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.3	5.1	5.1	5.1	5.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:52	30-Apr-2022 15:58	30-Apr-2022 16:02	30-Apr-2022 20:08	01-May-2022 00:12
Compound	CAS Number	LOR	Unit	EM2207807-006	EM2207807-007	EM2207807-008	EM2207807-009	EM2207807-012
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:52	30-Apr-2022 15:58	30-Apr-2022 16:02	30-Apr-2022 20:08	01-May-2022 00:12
Compound	CAS Number	LOR	Unit	EM2207807-006	EM2207807-007	EM2207807-008	EM2207807-009	EM2207807-012
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:52	30-Apr-2022 15:58	30-Apr-2022 16:02	30-Apr-2022 20:08	01-May-2022 00:12
Compound	CAS Number	LOR	Unit	EM2207807-006	EM2207807-007	EM2207807-008	EM2207807-009	EM2207807-012
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:52	30-Apr-2022 15:58	30-Apr-2022 16:02	30-Apr-2022 20:08	01-May-2022 00:12
Compound	CAS Number	LOR	Unit	EM2207807-006	EM2207807-007	EM2207807-008	EM2207807-009	EM2207807-012
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:52	30-Apr-2022 15:58	30-Apr-2022 16:02	30-Apr-2022 20:08	01-May-2022 00:12
Compound	CAS Number	LOR	Unit	EM2207807-006	EM2207807-007	EM2207807-008	EM2207807-009	EM2207807-012
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS	SX_OB_20220430_16_02_SS_Primary_ALS	SX_OB_20220430_20_08_SS_Primary_ALS	SX_OB_20220501_00_12_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:52	30-Apr-2022 15:58	30-Apr-2022 16:02	30-Apr-2022 20:08	01-May-2022 00:12
Compound	CAS Number	LOR	Unit	EM2207807-006	EM2207807-007	EM2207807-008	EM2207807-009	EM2207807-012
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	104	118	103	108	112
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	92.6	82.7	92.4	89.4	96.0
Toluene-D8	2037-26-5	0.1	%	93.2	85.5	94.0	90.5	96.8
4-Bromofluorobenzene	460-00-4	0.1	%	102	90.4	102	99.5	106
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	90.6	94.9	87.1	94.0	95.5
2-Chlorophenol-D4	93951-73-6	0.025	%	82.6	87.6	79.6	86.0	87.3
2,4,6-Tribromophenol	118-79-6	0.025	%	74.5	78.7	70.8	77.3	83.3
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	89.8	94.2	86.0	93.6	95.6
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	81.6	85.3	78.8	85.5	86.4
2-Fluorobiphenyl	321-60-8	0.025	%	92.3	97.7	89.2	96.5	99.3
Anthracene-d10	1719-06-8	0.025	%	84.8	89.1	82.2	88.7	92.5
4-Terphenyl-d14	1718-51-0	0.025	%	88.6	94.6	87.4	93.6	99.7
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	123	111	102	110	110
13C8-PFOA	----	0.0002	%	94.5	97.6	97.3	98.1	91.0



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 04:13	01-May-2022 08:17	01-May-2022 08:20	01-May-2022 12:15	01-May-2022 12:21	
Compound	CAS Number	LOR	Unit	EM2207807-013	EM2207807-014	EM2207807-015	EM2207807-016	EM2207807-017	
				Result	Result	Result	Result	Result	
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit	7.6	8.6	8.6	8.8	8.8	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	30.3	31.9	32.8	33.3	32.3	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	9	27	23	20	20	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	5	mg/kg	106	90	85	78	76	
Copper	7440-50-8	5	mg/kg	48	54	60	58	56	
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5	
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5	
Nickel	7440-02-0	5	mg/kg	131	163	153	167	142	
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5	
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2	
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10	
Zinc	7440-66-6	5	mg/kg	84	119	122	107	103	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	
EK026SF: Total CN by Segmented Flow Analyser									
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5	
EK040T: Fluoride Total									
Fluoride	16984-48-8	100	mg/kg	180	280	200	190	240	
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit	9.3	9.9	9.6	9.8	9.8	
After HCl pH	----	0.1	pH Unit	1.5	1.4	1.6	1.5	1.5	
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0	
Final pH	----	0.1	pH Unit	5.2	5.2	5.2	5.2	5.3	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP074A: Monocyclic Aromatic Hydrocarbons									
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 04:13	01-May-2022 08:17	01-May-2022 08:20	01-May-2022 12:15	01-May-2022 12:21
Compound	CAS Number	LOR	Unit	EM2207807-013	EM2207807-014	EM2207807-015	EM2207807-016	EM2207807-017
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3	106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 04:13	01-May-2022 08:17	01-May-2022 08:20	01-May-2022 12:15	01-May-2022 12:21
Compound	CAS Number	LOR	Unit	EM2207807-013	EM2207807-014	EM2207807-015	EM2207807-016	EM2207807-017
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 04:13	01-May-2022 08:17	01-May-2022 08:20	01-May-2022 12:15	01-May-2022 12:21
Compound	CAS Number	LOR	Unit	EM2207807-013	EM2207807-014	EM2207807-015	EM2207807-016	EM2207807-017
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 04:13	01-May-2022 08:17	01-May-2022 08:20	01-May-2022 12:15	01-May-2022 12:21	
Compound	CAS Number	LOR	Unit	EM2207807-013	EM2207807-014	EM2207807-015	EM2207807-016	EM2207807-017	
				Result	Result	Result	Result	Result	
EP075I: Organochlorine Pesticides - Continued									
^ Sum of other organochlorine pesticides				----	0.03	mg/kg	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction				----	20	mg/kg	<20	<20	<20
C10 - C14 Fraction				----	50	mg/kg	<50	<50	<50
C6 - C10 Fraction				C6_C10	20	mg/kg	<20	<20	<20
C15 - C28 Fraction				----	100	mg/kg	<100	<100	<100
C29 - C36 Fraction				----	100	mg/kg	<100	<100	<100
^ C10 - C36 Fraction (sum)				----	50	mg/kg	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
>C10 - C16 Fraction				----	50	mg/kg	<50	<50	<50
>C16 - C34 Fraction				----	100	mg/kg	<100	<100	<100
>C34 - C40 Fraction				----	100	mg/kg	<100	<100	<100
^ >C10 - C40 Fraction (sum)				----	50	mg/kg	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)				----	50	mg/kg	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)				C6_C10-BTEX	20	mg/kg	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)				375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)				2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)				355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)				375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)				1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)				335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)				375-22-4	5	µg/kg	<5	<5	<5
Perfluoropentanoic acid (PFPeA)				2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)				307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)				375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 04:13	01-May-2022 08:17	01-May-2022 08:20	01-May-2022 12:15	01-May-2022 12:21	
Compound	CAS Number	LOR	Unit	EM2207807-013	EM2207807-014	EM2207807-015	EM2207807-016	EM2207807-017	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220501_04_13_SS_Primary_ALS	SX_IB_20220501_08_17_SS_Primary_ALS	SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS
Sampling date / time				01-May-2022 04:13	01-May-2022 08:17	01-May-2022 08:20	01-May-2022 12:15	01-May-2022 12:21	
Compound	CAS Number	LOR	Unit	EM2207807-013	EM2207807-014	EM2207807-015	EM2207807-016	EM2207807-017	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	120	110	121	107	104	
EP074S: VOC Surrogates (Ultra-Trace)									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	64.5	87.6	93.1	83.7	89.7	
Toluene-D8	2037-26-5	0.1	%	62.8	89.0	91.0	82.6	88.6	
4-Bromofluorobenzene	460-00-4	0.1	%	79.7	96.6	94.2	86.4	89.5	
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%	96.4	101	112	95.0	90.5	
2-Chlorophenol-D4	93951-73-6	0.025	%	88.8	94.7	105	88.4	84.6	
2,4,6-Tribromophenol	118-79-6	0.025	%	80.6	88.4	98.4	83.6	78.7	
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%	97.4	103	114	96.0	91.8	
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	87.5	91.2	101	86.3	82.0	
2-Fluorobiphenyl	321-60-8	0.025	%	99.0	101	114	96.5	92.9	
Anthracene-d10	1719-06-8	0.025	%	90.7	96.1	108	90.7	86.2	
4-Terphenyl-d14	1718-51-0	0.025	%	95.5	98.9	108	92.1	89.0	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	109	121	113	129	121	
13C8-PFOA	----	0.0002	%	92.0	90.2	91.8	93.9	94.7	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 12:24	01-May-2022 16:12	01-May-2022 16:18	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-018	EM2207807-019	EM2207807-020	EM2207807-021	EM2207807-022
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl ₂)	----	0.1	pH Unit	7.6	8.9	8.9	7.5	8.7
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	31.1	30.0	34.0	28.4	30.6
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	12	18	24	14	21
Cadmium	7440-43-9	1	mg/kg	1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	124	73	79	116	78
Copper	7440-50-8	5	mg/kg	67	45	49	66	54
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	183	123	132	172	140
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	113	80	97	101	97
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	190	220	<100	170	210
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.1	10.0	10.0	9.2	9.9
After HCl pH	----	0.1	pH Unit	1.5	1.5	1.5	1.5	1.5
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.1	5.2	5.3	5.2	5.2
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 12:24	01-May-2022 16:12	01-May-2022 16:18	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-018	EM2207807-019	EM2207807-020	EM2207807-021	EM2207807-022
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 12:24	01-May-2022 16:12	01-May-2022 16:18	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-018	EM2207807-019	EM2207807-020	EM2207807-021	EM2207807-022
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 12:24	01-May-2022 16:12	01-May-2022 16:18	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-018	EM2207807-019	EM2207807-020	EM2207807-021	EM2207807-022
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 12:24	01-May-2022 16:12	01-May-2022 16:18	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-018	EM2207807-019	EM2207807-020	EM2207807-021	EM2207807-022
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 12:24	01-May-2022 16:12	01-May-2022 16:18	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-018	EM2207807-019	EM2207807-020	EM2207807-021	EM2207807-022
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS	SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS
Sampling date / time				01-May-2022 12:24	01-May-2022 16:12	01-May-2022 16:18	01-May-2022 16:24	01-May-2022 19:49
Compound	CAS Number	LOR	Unit	EM2207807-018	EM2207807-019	EM2207807-020	EM2207807-021	EM2207807-022
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	96.6	104	97.9	96.7	96.8
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	96.8	87.0	93.4	93.4	93.7
Toluene-D8	2037-26-5	0.1	%	98.5	84.1	94.8	93.4	96.5
4-Bromofluorobenzene	460-00-4	0.1	%	99.9	87.6	98.5	95.3	95.6
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	89.2	94.7	87.3	86.1	91.7
2-Chlorophenol-D4	93951-73-6	0.025	%	83.6	87.5	80.9	79.5	84.3
2,4,6-Tribromophenol	118-79-6	0.025	%	77.3	80.3	73.6	73.1	77.8
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	90.8	95.5	87.8	86.5	91.6
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	80.2	86.3	77.2	77.3	83.2
2-Fluorobiphenyl	321-60-8	0.025	%	91.3	96.5	87.6	87.2	93.0
Anthracene-d10	1719-06-8	0.025	%	85.6	90.2	82.4	81.7	86.9
4-Terphenyl-d14	1718-51-0	0.025	%	89.1	93.5	85.0	85.0	89.6
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	103	120	128	106	119
13C8-PFOA	----	0.0002	%	97.3	89.8	92.6	96.7	96.4



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS
Sampling date / time				01-May-2022 19:58	01-May-2022 23:56	02-May-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	
Compound	CAS Number	LOR	Unit	EM2207807-023	EM2207807-025	EM2207807-027	EM2207807-028	EM2207807-029	
				Result	Result	Result	Result	Result	
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl ₂)	----	0.1	pH Unit	9.0	9.0	8.9	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	31.8	32.4	31.7	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	22	26	22	----	----	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----	
Chromium	7440-47-3	5	mg/kg	81	80	76	----	----	
Copper	7440-50-8	5	mg/kg	48	58	49	----	----	
Lead	7439-92-1	5	mg/kg	<5	<5	<5	----	----	
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	----	----	
Nickel	7440-02-0	5	mg/kg	124	143	118	----	----	
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	----	----	
Silver	7440-22-4	2	mg/kg	<2	<2	<2	----	----	
Tin	7440-31-5	10	mg/kg	<10	<10	<10	----	----	
Zinc	7440-66-6	5	mg/kg	82	104	92	----	----	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	----	
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	----	----	
EK026SF: Total CN by Segmented Flow Analyser									
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	----	----	
EK040T: Fluoride Total									
Fluoride	16984-48-8	100	mg/kg	210	<100	180	----	----	
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit	10.0	10.1	9.9	----	----	
After HCl pH	----	0.1	pH Unit	1.4	1.4	1.5	----	----	
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	----	----	
Final pH	----	0.1	pH Unit	5.2	5.2	5.2	----	----	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit	----	----	----	10.3	10.3	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	----	----	
EP074A: Monocyclic Aromatic Hydrocarbons									



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS
Sampling date / time				01-May-2022 19:58	01-May-2022 23:56	02-May-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-023	EM2207807-025	EM2207807-027	EM2207807-028	EM2207807-029
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	----
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS
Sampling date / time				01-May-2022 19:58	01-May-2022 23:56	02-May-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-023	EM2207807-025	EM2207807-027	EM2207807-028	EM2207807-029
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	----	----
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	----	----
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	----	----
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	----	----
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	----	----
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	----	----
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	----	----
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	----	----
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	----	----
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	----	----
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	----	----
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	----	----
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	----	----
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	----	----
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	----	----
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	----	----
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS
Sampling date / time				01-May-2022 19:58	01-May-2022 23:56	02-May-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-023	EM2207807-025	EM2207807-027	EM2207807-028	EM2207807-029
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	----	----
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	----	----
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	----	----
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS
Sampling date / time				01-May-2022 19:58	01-May-2022 23:56	02-May-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	
Compound	CAS Number	LOR	Unit	EM2207807-023	EM2207807-025	EM2207807-027	EM2207807-028	EM2207807-029	
				Result	Result	Result	Result	Result	
EP075I: Organochlorine Pesticides - Continued									
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----	
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	----	----	
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	----	----	
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	----	
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	----	----	
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	----	
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	----	
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----	
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	----	----	
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	----	----	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS
Sampling date / time				01-May-2022 19:58	01-May-2022 23:56	02-May-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	
Compound	CAS Number	LOR	Unit	EM2207807-023	EM2207807-025	EM2207807-027	EM2207807-028	EM2207807-029	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	----	----	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS	SX_IB_20220502_04_06_SS_Primary_ALS	SX_IB_20220430_07_47_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS
Sampling date / time				01-May-2022 19:58	01-May-2022 23:56	02-May-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	
Compound	CAS Number	LOR	Unit	EM2207807-023	EM2207807-025	EM2207807-027	EM2207807-028	EM2207807-029	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----	
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	----	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	112	107	101	----	----	
EP074S: VOC Surrogates (Ultra-Trace)									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	85.2	81.6	80.2	----	----	
Toluene-D8	2037-26-5	0.1	%	83.9	83.5	80.3	----	----	
4-Bromofluorobenzene	460-00-4	0.1	%	86.9	86.4	85.9	----	----	
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%	103	96.8	95.1	----	----	
2-Chlorophenol-D4	93951-73-6	0.025	%	95.5	89.4	88.2	----	----	
2,4,6-Tribromophenol	118-79-6	0.025	%	88.6	82.0	80.8	----	----	
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%	104	97.3	96.0	----	----	
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	92.6	87.2	84.6	----	----	
2-Fluorobiphenyl	321-60-8	0.025	%	104	98.4	96.0	----	----	
Anthracene-d10	1719-06-8	0.025	%	98.7	91.8	89.8	----	----	
4-Terphenyl-d14	1718-51-0	0.025	%	100	93.8	92.0	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	111	100	101	----	----	
13C8-PFOA	----	0.0002	%	94.6	92.0	90.2	----	----	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220430_08_01_SS_Primary_ALS	SX_IB_20220430_11_51_SS_Primary_ALS	SX_OB_20220430_11_55_SS_Primary_ALS	SX_IB_20220430_15_52_SS_Primary_ALS	SX_OB_20220430_15_58_SS_Triplicate_ALS
Sampling date / time				30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00	30-Apr-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-030	EM2207807-031	EM2207807-032	EM2207807-033	EM2207807-034
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.3	10.2	9.4	10.2	9.6



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220430_16 _02_SS_Primary_ALS	SX_OB_20220430_20 _08_SS_Primary_ALS	SX_OB_20220501_00 _12_SS_Primary_ALS	SX_OB_20220501_04 _13_SS_Primary_ALS	SX_IB_20220501_08_ 17_SS_Primary_ALS
Sampling date / time				30-Apr-2022 15:00	30-Apr-2022 15:00	01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-035	EM2207807-036	EM2207807-037	EM2207807-038	EM2207807-039
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.5	9.3	9.3	9.4	10.1



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220501_08_20_SS_Duplicate_ALS	SX_IB_20220501_12_15_SS_Primary_ALS	SX_IB_20220501_12_21_SS_Primary_ALS	SX_OB_20220501_12_24_SS_Primary_ALS	SX_IB_20220501_16_12_SS_Primary_ALS
Sampling date / time				01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00	01-May-2022 15:00
Compound	CAS Number	LOR	Unit	EM2207807-040	EM2207807-041	EM2207807-042	EM2207807-043	EM2207807-044
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	10.2	10.2	10.3	9.4	10.3



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220501_16_18_SS_Primary_ALS	SX_OB_20220501_16_24_SS_Triplicate_ALS	SX_IB_20220501_19_49_SS_Primary_ALS	SX_IB_20220501_19_58_SS_Primary_ALS	SX_IB_20220501_23_56_SS_Primary_ALS
Sampling date / time				01-May-2022 15:00	01-May-2022 16:24	01-May-2022 19:49	01-May-2022 19:58	01-May-2022 23:56
Compound	CAS Number	LOR	Unit	EM2207807-045	EM2207807-046	EM2207807-047	EM2207807-048	EM2207807-049
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	10.3	9.5	10.2	10.3	10.3



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SX_IB_20220502_04_06_SS_Primary_ALS	----	----	----	----
			Sampling date / time	02-May-2022 04:06	----	----	----	----
Compound	CAS Number	LOR	Unit	EM2207807-050	-----	-----	-----	-----
				Result	---	---	---	---
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	10.2	----	----	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID		SX_OB_20220430_20 _14_SR_Rinsate_ALS	SX_OB_20220430_20 _15_SB_Blank_ALS	----	----	----
Sampling date / time			30-Apr-2022 20:14		30-Apr-2022 20:15		----	----	----
Compound	CAS Number	LOR	Unit	EM2207807-010	EM2207807-011	-----	-----	-----	
				Result	Result	---	---	---	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	----	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	----	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SX_OB_20220430_20_14_SR_Rinsate_ALS	SX_OB_20220430_20_15_SB_Blank_ALS	----	----	----
Sampling date / time				30-Apr-2022 20:14	30-Apr-2022 20:15	----	----	----	
Compound	CAS Number	LOR	Unit	EM2207807-010	EM2207807-011	-----	-----	-----	
				Result	Result	---	---	---	
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	----	----	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	----	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	----	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	----	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	90.6	92.3	----	----	----	
13C8-PFOA	----	0.02	%	95.3	97.2	----	----	----	



Surrogate Control Limits

Sub-Matrix: ASLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: DI WATER LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	41	122
EP074S: VOC Surrogates (Ultra-Trace)			
1,2-Dichloroethane-D4	17060-07-0	59	119
Toluene-D8	2037-26-5	55	117
4-Bromofluorobenzene	460-00-4	59	123
EP075S: Acid Extractable Surrogates (Waste Classification)			
Phenol-d6	13127-88-3	63	134
2-Chlorophenol-D4	93951-73-6	60	125
2,4,6-Tribromophenol	118-79-6	54	129
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)			
Nitrobenzene-D5	4165-60-0	63	131
1,2-Dichlorobenzene-D4	2199-69-1	61	124
2-Fluorobiphenyl	321-60-8	69	131
Anthracene-d10	1719-06-8	70	133
4-Terphenyl-d14	1718-51-0	59	141
EP231S: PFAS Surrogate			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

QUALITY CONTROL REPORT

Work Order	: EM2207807	Page	: 1 of 56
Amendment	: 1		
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Contact	: Josh Alexander
Address	: D1.1 63-85 TURNER STREET PORT MELBOURNE 3207	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61-3-8549 9600
Project	: JC0927	Date Samples Received	: 02-May-2022
Order number	: ----	Date Analysis Commenced	: 02-May-2022
C-O-C number	: 20220502042154-ALS-21	Issue Date	: 09-May-2022
Sampler	: WOH + TB + DL + LR		
Site	: 20220502042154-ALS-21		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 50		
No. of samples analysed	: 48		



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4315474)									
EM2207719-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	86	90	4.4	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	173	167	3.8	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	29	24	19.9	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	73	64	12.1	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	121	116	4.3	0% - 20%
EM2207807-002	SX_IB_20220430_07_51_S S_Duplicate_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	82	80	2.3	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	167	154	7.8	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	22	20	9.4	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	59	54	8.2	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	118	114	3.0	0% - 20%
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4315477)									



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4315477) - continued									
EM2207807-015	SX_IB_20220501_08_20_S S_Duplicate_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	85	88	3.7	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	153	160	4.6	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	23	24	4.3	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	60	62	3.2	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	122	126	3.1	0% - 20%		
EM2207807-025	SX_IB_20220501_23_56_S S_Primary_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	80	88	8.5	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	143	160	11.5	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	26	28	8.1	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	58	73	23.7	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	104	116	11.1	0% - 20%		
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4317687)									
EM2207664-001	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.4	7.5	0.0	0% - 20%
EM2207719-006	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.6	7.6	0.0	0% - 20%
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4317688)									
EM2207807-007	SX_OB_20220430_15_58_ SS_Triplicate_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.8	7.7	1.7	0% - 20%
EM2207807-018	SX_OB_20220501_12_24_ SS_Primary_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.6	7.6	0.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4315804)									
EM2207664-001	Anonymous	EA055: Moisture Content	----	0.1	%	34.1	31.0	9.5	0% - 20%
EM2207719-007	Anonymous	EA055: Moisture Content	----	0.1	%	29.4	25.5	14.2	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4315805)									
EM2207807-007	SX_OB_20220430_15_58_ SS_Triplicate_ALS	EA055: Moisture Content	----	0.1	%	26.5	26.0	1.9	0% - 20%
EM2207807-019	SX_IB_20220501_16_12_S S_Primary_ALS	EA055: Moisture Content	----	0.1	%	30.0	31.5	4.7	0% - 20%



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4315475)									
EM2207719-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2207807-002	SX_IB_20220430_07_51_S S_Duplicate_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4315476)									
EM2207807-015	SX_IB_20220501_08_20_S S_Duplicate_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2207807-025	SX_IB_20220501_23_56_S S_Primary_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4316693)									
EM2207664-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EM2207719-006	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4316694)									
EM2207807-007	SX_OB_20220430_15_58_ SS_Triplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EM2207807-018	SX_OB_20220501_12_24_ SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4319101)									
EM2207794-021	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	<1	0.0	No Limit
EM2207807-004	SX_IB_20220430_11_51_S S_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4319102)									
EM2207807-017	SX_IB_20220501_12_21_S S_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EM2207862-007	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	1	1	0.0	No Limit
EK040T: Fluoride Total (QC Lot: 4316697)									
EM2207664-001	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	210	180	12.6	No Limit
EM2207719-006	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	170	150	13.8	No Limit
EK040T: Fluoride Total (QC Lot: 4316698)									
EM2207807-007	SX_OB_20220430_15_58_ SS_Triplicate_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	170	140	14.4	No Limit
EM2207807-018	SX_OB_20220501_12_24_ SS_Primary_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	190	200	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4316040)									
EM2207719-001	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2207807-003	SX_OB_20220430_08_01_ SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4316043)									
EM2207664-001	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4316043) - continued									
EM2207807-018	SX_OB_20220501_12_24_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4314584)									
EM2207807-001	SX_IB_20220430_07_47_S_S_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2207807-013	SX_OB_20220501_04_13_SS_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4314585)									
EM2207807-015	SX_IB_20220501_08_20_S_S_Duplicate_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2207807-027	SX_IB_20220502_04_06_S_S_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4314584)									
EM2207807-001	SX_IB_20220430_07_47_S_S_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074H: Naphthalene (QC Lot: 4314584) - continued									
EM2207807-013	SX_OB_20220501_04_13_SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4314585)									
EM2207807-015	SX_IB_20220501_08_20_S_S_Duplicate_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM2207807-027	SX_IB_20220502_04_06_S_S_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4314584)									
EM2207807-001	SX_IB_20220430_07_47_S_S_Primary_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit		
EM2207807-013	SX_OB_20220501_04_13_SS_Primary_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074I: Volatile Halogenated Compounds (QC Lot: 4314584) - continued									
EM2207807-013	SX_OB_20220501_04_13_SS_Primary_ALS	EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4314585)									
EM2207807-015	SX_IB_20220501_08_20_S_S_Duplicate_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit		
EM2207807-027	SX_IB_20220502_04_06_S_S_Primary_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit		



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074I: Volatile Halogenated Compounds (QC Lot: 4314585) - continued									
EM2207807-027	SX_IB_20220502_04_06_S S_Primary_ALS	EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit		
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4316042)									
EM2207719-001	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit
EM2207807-003	SX_OB_20220430_08_01_ SS_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4316045)									
EM2207664-001	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4316045) - continued									
EM2207664-001	Anonymous	EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		0-2							
EM2207807-018	SX_OB_20220501_12_24_ SS_Primary_ALS	EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit
		EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
0-2									
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit		
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4316042)									
EM2207719-001	Anonymous	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EM2207807-003	SX_OB_20220430_08_01_ SS_Primary_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4316045)									
EM2207664-001	Anonymous	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit



Sub-Matrix: SOIL

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4316045) - continued									
EM2207664-001	Anonymous	EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EM2207807-018	SX_OB_20220501_12_24_ SS_Primary_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4316042)									
EM2207719-001	Anonymous	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1,2,3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit
EM2207807-003	SX_OB_20220430_08_01_ SS_Primary_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4316042) - continued									
EM2207807-003	SX_OB_20220430_08_01_ SS_Primary_ALS	EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4316045)									
EM2207664-001	Anonymous	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit
EM2207807-018	SX_OB_20220501_12_24_ SS_Primary_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4316045) - continued									
EM2207807-018	SX_OB_20220501_12_24_ SS_Primary_ALS	EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit
EP075I: Organochlorine Pesticides (QC Lot: 4316042)									
EM2207719-001	Anonymous	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4`-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EM2207807-003	SX_OB_20220430_08_01_ SS_Primary_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit		



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075I: Organochlorine Pesticides (QC Lot: 4316042) - continued									
EM2207807-003	SX_OB_20220430_08_01_ SS_Primary_ALS	EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075I: Organochlorine Pesticides (QC Lot: 4316045)									
EM2207664-001	Anonymous	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EM2207807-018	SX_OB_20220501_12_24_ SS_Primary_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075I: Organochlorine Pesticides (QC Lot: 4316045) - continued									
EM2207807-018	SX_OB_20220501_12_24_ SS_Primary_ALS	EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4314584)									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EM2207807-013	SX_OB_20220501_04_13_ SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4314585)									
EM2207807-015	SX_IB_20220501_08_20_S S_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EM2207807-027	SX_IB_20220502_04_06_S S_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4316041)									
EM2207719-001	Anonymous	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2207807-003	SX_OB_20220430_08_01_ SS_Primary_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4316044)									
EM2207664-001	Anonymous	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4316044) - continued									
EM2207807-018	SX_OB_20220501_12_24_SS_Primary_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4314584)									
EM2207807-001	SX_IB_20220430_07_47_SS_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EM2207807-013	SX_OB_20220501_04_13_SS_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4314585)									
EM2207807-015	SX_IB_20220501_08_20_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EM2207807-027	SX_IB_20220502_04_06_SS_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4316041)									
EM2207719-001	Anonymous	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2207807-003	SX_OB_20220430_08_01_SS_Primary_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4316044)									
EM2207664-001	Anonymous	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2207807-018	SX_OB_20220501_12_24_SS_Primary_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4315018)									



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4315018) - continued									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2207807-013	SX_OB_20220501_04_13_ SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2207719-005	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4315018)									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4315018) - continued									
EM2207807-013	SX_OB_20220501_04_13_S SS_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0002	0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit		
EM2207719-005	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit		
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4315018)									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4315018) - continued									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2207807-013	SX_OB_20220501_04_13_ SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2207719-005	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4315022) - continued									
EM2207719-005	Anonymous	EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4315018)									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2207807-013	SX_OB_20220501_04_13_ SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2207719-005	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4315022) - continued									
EM2207719-005	Anonymous	EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4315018)									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
EM2207807-013	SX_OB_20220501_04_13_ SS_Primary_ALS	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4315022)									
EM2207535-002	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
EM2207719-005	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4317373)									
EM2207712-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	3.41	3.14	8.4	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	6.52	6.03	7.8	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.37	0.37	0.0	0% - 50%
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	0.40	0.38	3.1	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.30	0.28	4.6	0% - 50%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2207797-002	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.12	0.12	0.0	0% - 50%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	1.46	1.54	5.7	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit

EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4318654)



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4318654) - continued									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2207807-020	SX_IB_20220501_16_18_S S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4318698)									
EM2207807-028	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2207807-036	SX_OB_20220430_20_08_ SS_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4318981)									
EM2207616-012	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2207807-048	SX_IB_20220501_19_58_S S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4318981) - continued									
EM2207807-048	SX_IB_20220501_19_58_S S_Primary_ALS	EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4318982)									
EM2207616-011	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4317373)									
EM2207712-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.45	0.45	0.0	0% - 20%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.93	0.92	1.8	0% - 20%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	1.53	1.48	3.1	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.39	0.37	4.9	0% - 50%
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	0.3	0.3	0.0	No Limit
		EM2207797-002	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.02	0.02
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3			0.02	µg/L	0.15	0.15	0.0	No Limit
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4			0.02	µg/L	0.12	0.11	0.0	No Limit
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9			0.02	µg/L	0.02	0.02	0.0	No Limit
EP231X: Perfluorononanoic acid (PFNA)	375-95-1			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8			0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7			0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4			0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4318654)									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4318654) - continued									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EM2207807-020	SX_IB_20220501_16_18_S S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4318698)									
EM2207807-028	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EM2207807-036	SX_OB_20220430_20_08_ SS_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4318698) - continued									
EM2207807-036	SX_OB_20220430_20_08_ SS_Primary_ALS	EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4318981)									
EM2207616-012	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EM2207807-048	SX_IB_20220501_19_58_S S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4318982)									
EM2207616-011	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4318982) - continued									
EM2207616-011	Anonymous	EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4317373)									
EM2207712-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	0.04	0.04	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207797-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4318654)									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4318654) - continued									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207807-020	SX_IB_20220501_16_18_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4318698)									
EM2207807-028	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207807-036	SX_OB_20220430_20_08_ SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4318698) - continued									
EM2207807-036	SX_OB_20220430_20_08_ SS_Primary_ALS	EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4318981)									
EM2207616-012	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207807-048	SX_IB_20220501_19_58_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4318982)									
EM2207616-011	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4318982) - continued									
EM2207616-011	Anonymous	EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4317373)									
EM2207712-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.73	0.73	0.0	0% - 50%
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207797-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.14	0.15	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4318654)									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207807-020	SX_IB_20220501_16_18_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4318654) - continued									
EM2207807-020	SX_IB_20220501_16_18_S S_Primary_ALS	EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4318698)									
EM2207807-028	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207807-036	SX_OB_20220430_20_08_ SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4318981)									
EM2207616-012	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2207807-048	SX_IB_20220501_19_58_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4318982)									
EM2207616-011	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4318982) - continued									
EM2207616-011	Anonymous	EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4317373)									
EM2207712-001	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	15.4	14.5	6.0	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	9.93	9.17	8.0	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	14.6	13.8	5.9	0% - 20%
EM2207797-002	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	2.05	2.11	2.9	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	1.58	1.66	4.9	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	2.05	2.11	2.9	0% - 20%
EP231P: PFAS Sums (QC Lot: 4318654)									
EM2207807-001	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EM2207807-020	SX_IB_20220501_16_18_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4318698)									
EM2207807-028	SX_IB_20220430_07_47_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EM2207807-036	SX_OB_20220430_20_08_ SS_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4318981)									
EM2207616-012	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231P: PFAS Sums (QC Lot: 4318981) - continued									
EM2207807-048	SX_IB_20220501_19_58_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4318982)									
EM2207616-011	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4315474)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	97.2	70.0	130	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	58.1	50.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	95.8	70.0	130	
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	90.4	70.0	130	
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	90.7	70.0	130	
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	89.6	70.0	130	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	91.5	70.0	130	
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----	
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.9 mg/kg	88.9	70.0	130	
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	83.3	70.0	130	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	72.2	70.0	130	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4315477)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	97.0	70.0	130	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	61.6	50.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	95.5	70.0	130	
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	90.2	70.0	130	
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	91.2	70.0	130	
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	87.5	70.0	130	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	91.2	70.0	130	
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----	
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.9 mg/kg	87.8	70.0	130	
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	82.9	70.0	130	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	71.8	70.0	130	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4316453)									
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.1	----	----	----	----	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4316454)									
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.1	----	----	----	----	
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4317687)									
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	100	98.8	101	
				----	7 pH Unit	100	99.3	101	
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4317688)									
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	100	98.8	101	
				----	7 pH Unit	100	99.3	101	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4315475)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4315475) - continued								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	95.3	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4315476)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	90.6	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4316693)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	79.4	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4316694)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	80.7	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4319101)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	71.6	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4319102)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	87.1	70.0	130
EK040T: Fluoride Total (QCLot: 4316697)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	92.5	75.2	110
EK040T: Fluoride Total (QCLot: 4316698)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<200	400 mg/kg	95.2	75.2	110
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4316040)								
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	102	67.4	136
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4316043)								
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	105	67.4	136
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4314584)								
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	99.6	69.2	116
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	98.0	67.7	116
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	96.5	66.6	115
EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4.2 mg/kg	93.0	65.2	112
	106-42-3							
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	94.1	69.4	111
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	93.1	68.4	110
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4314585)								
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	96.2	69.2	116
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	96.7	67.7	116
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	95.6	66.6	115
EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4.2 mg/kg	93.9	65.2	112
	106-42-3							
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	92.4	69.4	111
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	94.4	68.4	110
EP074H: Naphthalene (QCLot: 4314584)								
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	88.7	72.3	114



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP074H: Naphthalene (QCLot: 4314585)									
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	88.2	72.3	114	
EP074I: Volatile Halogenated Compounds (QCLot: 4314584)									
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	94.0	47.0	138	
EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	103	57.6	125	
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	97.8	72.3	115	
EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	101	60.5	122	
EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	96.8	70.3	112	
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	96.8	66.6	115	
EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	99.2	64.4	122	
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	98.0	58.4	127	
EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	103	72.9	114	
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	96.6	64.7	115	
EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	101	72.6	116	
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	94.6	60.0	119	
EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	95.0	71.8	116	
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	94.4	66.1	116	
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	85.0	39.8	128	
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	97.0	70.3	113	
EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	93.2	62.6	113	
EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	95.2	70.8	110	
EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	89.7	48.4	120	
EP074I: Volatile Halogenated Compounds (QCLot: 4314585)									
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	77.8	47.0	138	
EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	88.7	57.6	125	
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	90.2	72.3	115	
EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	96.1	60.5	122	
EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	94.2	70.3	112	
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	96.6	66.6	115	
EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	95.1	64.4	122	
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	95.4	58.4	127	
EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	96.4	72.9	114	
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	97.9	64.7	115	
EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	99.1	72.6	116	
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	97.6	60.0	119	
EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	100	71.8	116	
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	93.8	66.1	116	
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	95.8	39.8	128	
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	96.6	70.3	113	
EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	94.4	62.6	113	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP074I: Volatile Halogenated Compounds (QCLot: 4314585) - continued									
EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	98.0	70.8	110	
EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	94.4	48.4	120	
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4316042)									
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	82.6	74.5	126	
EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	84.2	72.7	126	
EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	84.4	73.5	132	
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	92.5	72.8	128	
EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	83.6	73.3	134	
EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	82.6	72.4	128	
EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	88.1	69.4	126	
EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/5 8-90-2	0.05	mg/kg	<0.05	4 mg/kg	92.3	71.9	128	
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	84.0	54.4	135	
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4316045)									
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	83.0	74.5	126	
EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	84.9	72.7	126	
EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	85.6	73.5	132	
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	91.7	72.8	128	
EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	85.4	73.3	134	
EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	83.9	72.4	128	
EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	85.2	69.4	126	
EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/5 8-90-2	0.05	mg/kg	<0.05	4 mg/kg	88.0	71.9	128	
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	82.0	54.4	135	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4316042)									
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	89.8	71.5	130	
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	84.2	73.4	129	
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	82.5	74.3	129	
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	80.8	70.9	133	
EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	85.6	71.8	132	
EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	72.6	41.0	156	
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	87.5	65.3	134	
EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	78.0	43.6	128	
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	83.0	62.0	128	
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	77.8	34.5	137	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4316045)									
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	88.2	71.5	130	
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	83.5	73.4	129	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4316045) - continued									
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	82.2	74.3	129	
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	82.6	70.9	133	
EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	84.6	71.8	132	
EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	70.8	41.0	156	
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	82.5	65.3	134	
EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	78.5	43.6	128	
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	82.8	62.0	128	
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	74.8	34.5	137	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4316042)									
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	86.0	73.0	131	
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	89.2	76.3	130	
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	90.4	72.0	135	
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	90.9	74.4	131	
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	84.8	73.3	130	
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	83.9	78.4	127	
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	87.3	75.3	132	
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	89.6	75.4	130	
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	89.9	69.6	133	
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	93.4	75.0	133	
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	4 mg/kg	102	75.8	133	
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	98.3	65.1	130	
EP075-EM: Indeno(1,2,3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	87.1	72.1	134	
EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	87.0	72.9	135	
EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	88.9	71.3	134	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4316045)									
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	86.7	73.0	131	
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	87.0	76.3	130	
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	88.4	72.0	135	
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	88.6	74.4	131	
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	85.4	73.3	130	
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	84.6	78.4	127	
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	88.0	75.3	132	
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	89.8	75.4	130	
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	84.2	69.6	133	
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	85.9	75.0	133	
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	4 mg/kg	90.9	75.8	133	
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	88.9	65.1	130	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4316045) - continued									
EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	81.8	72.1	134	
EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	81.4	72.9	135	
EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	83.0	71.3	134	
EP075I: Organochlorine Pesticides (QCLot: 4316042)									
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	85.2	71.0	129	
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	84.0	74.8	126	
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	93.1	75.7	130	
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	86.4	70.8	130	
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	87.4	76.5	134	
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	87.7	75.5	131	
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	91.7	76.8	130	
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	84.8	73.6	130	
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	89.1	75.0	133	
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	89.4	75.3	131	
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	85.8	69.4	134	
EP075-EM: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	89.4	71.0	132	
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	89.0	78.0	133	
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	77.2	69.0	143	
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	94.2	55.7	145	
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	82.9	71.4	135	
EP075-EM: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	89.2	74.8	134	
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	87.2	70.2	135	
EP075-EM: 4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	87.8	77.7	133	
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	91.3	63.6	135	
EP075I: Organochlorine Pesticides (QCLot: 4316045)									
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	85.8	71.0	129	
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	83.6	74.8	126	
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	91.6	75.7	130	
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	87.5	70.8	130	
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	87.2	76.5	134	
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	85.0	75.5	131	
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	88.6	76.8	130	
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	86.3	73.6	130	
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	88.5	75.0	133	
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	89.2	75.3	131	
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	86.5	69.4	134	
EP075-EM: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	83.5	71.0	132	
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	81.8	78.0	133	
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	# 68.2	69.0	143	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
EP075I: Organochlorine Pesticides (QCLot: 4316045) - continued									
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	62.0	55.7	145	
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	79.3	71.4	135	
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	81.2	74.8	134	
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	79.6	70.2	135	
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	80.6	77.7	133	
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	83.0	63.6	135	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4314584)									
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	99.1	61.1	119	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4314585)									
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	85.4	61.1	119	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4316041)									
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	670 mg/kg	110	74.4	129	
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	2860 mg/kg	110	81.0	123	
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1490 mg/kg	102	81.8	121	
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	108	70.0	130	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4316044)									
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	670 mg/kg	91.9	74.4	129	
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	2860 mg/kg	104	81.0	123	
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1490 mg/kg	101	81.8	121	
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	102	70.0	130	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4314584)									
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	96.4	59.9	119	
EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4314585)									
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	88.3	59.9	119	
EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4316041)									
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1000 mg/kg	105	75.4	132	
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	3770 mg/kg	112	80.8	120	
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	119	73.3	136	
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	111	70.0	130	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4316044)									
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1000 mg/kg	94.3	75.4	132	
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	3770 mg/kg	113	80.8	120	
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	92.1	73.3	136	
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	108	70.0	130	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4315018)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	90.5	72.0	128	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	99.7	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	71.0	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	80.2	70.0	132	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	87.7	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	88.9	59.0	134	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4315022)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	94.1	72.0	128	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	89.0	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	70.1	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	96.7	70.0	132	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	88.6	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	85.7	59.0	134	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4315018)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	75.5	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.9	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	77.6	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.6	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.6	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.9	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	74.5	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.8	64.0	136	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	84.5	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.8	66.0	139	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	93.5	69.0	133	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4315022)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	79.2	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.8	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.0	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.0	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.3	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	102	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	77.7	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.8	64.0	136	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.8	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	75.6	66.0	139	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	92.1	69.0	133	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4315018)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4315018) - continued									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.4	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.1	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	92.5	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	77.5	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	98.2	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	86.6	61.0	139	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4315022)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.0	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	89.1	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	80.6	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	77.1	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.7	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.2	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.4	61.0	139	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4315018)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	92.7	62.0	145	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	82.0	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	101	65.0	137	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	107	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4315022)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	98.6	62.0	145	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	94.0	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	106	65.0	137	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	102	70.0	130	
EP231P: PFAS Sums (QCLot: 4315018)									
EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231P: PFAS Sums (QCLot: 4315022)									



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP231P: PFAS Sums (QCLot: 4315022) - continued									
EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4317373)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	97.3	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	96.9	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	92.1	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	92.2	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	94.9	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.4	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318654)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	98.7	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	109	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	113	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	110	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	90.6	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	112	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318698)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	99.5	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	100	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	86.9	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	93.8	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	89.2	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	91.2	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318981)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	95.3	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	97.9	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	92.2	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	95.8	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	92.0	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.2	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318982)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	89.0	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	110	71.0	127	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318982) - continued								
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	111	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	112	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	96.3	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	108	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4317373)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	94.1	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	101	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	95.4	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	91.7	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	96.5	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	94.6	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	99.6	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	90.7	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	101	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	86.9	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	103	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318654)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	88.6	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	93.3	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	120	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	97.5	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	99.1	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	87.1	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	95.2	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	79.3	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	98.0	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	90.0	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	113	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318698)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	88.5	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	105	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	85.7	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	101	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	96.0	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	105	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	82.3	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	97.6	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	94.4	72.0	134



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318698) - continued									
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	86.6	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	100.0	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318981)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	93.0	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	101	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	83.9	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	95.5	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	94.7	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	96.6	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	86.2	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	101	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	96.4	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	87.9	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	105	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318982)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	85.8	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	83.5	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	114	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	100	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	85.9	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	75.5	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	89.0	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	74.8	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	107	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	90.6	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	115	71.0	132	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4317373)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	102	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	119	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	98.3	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	93.2	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	97.8	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	100	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	96.2	61.0	135	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318654)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	101	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	109	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	100	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	98.6	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	106	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	107	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	105	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318698)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	96.2	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	98.2	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	91.0	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.7	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	95.2	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	108	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	96.1	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318981)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	103	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	98.7	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	89.8	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.4	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	99.8	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	117	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	95.5	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318982)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	93.5	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	119	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	105	70.0	130	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318982) - continued								
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	97.7	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	104	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	104	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	100	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4317373)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	96.0	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	100	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	107	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	82.6	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4318654)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	101	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	102	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	107	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	72.1	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4318698)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	101	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	99.8	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	108	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	87.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4318981)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	95.7	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	99.1	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	114	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	83.9	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4318982)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	99.6	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	108	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	104	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	71.6	70.0	130
EP231P: PFAS Sums (QCLot: 4317373)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----



Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP231P: PFAS Sums (QCLot: 4318654)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4318698)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4318981)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4318982)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report			
				Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
				MS	Low	High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4315474)							
EM2207719-002	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	95.4	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	88.3	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	94.4	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	96.4	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	89.2	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	83.0	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	83.4	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4315477)							
EM2207807-016	SX_IB_20220501_12_15_SS_Primary_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	80.5	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	92.5	79.7	116



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4315477) - continued							
EM2207807-016	SX_IB_20220501_12_15_SS_Primary_ALS	EG005T: Chromium	7440-47-3	50 mg/kg	104	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	100	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	93.8	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	86.0	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	84.2	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4315475)							
EM2207719-002	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	106	76.0	116
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4315476)							
EM2207807-016	SX_IB_20220501_12_15_SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	110	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4316693)							
EM2207664-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	87.3	58.0	114
EM2207664-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	101	58.0	114
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4316694)							
EM2207807-008	SX_OB_20220430_16_02_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	85.6	58.0	114
EM2207807-008	SX_OB_20220430_16_02_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	101	58.0	114
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4319101)							
EM2207794-030	Anonymous	EK026SF: Total Cyanide	57-12-5	20 mg/kg	73.6	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4319102)							
EM2207807-018	SX_OB_20220501_12_24_SS_Primary_ALS	EK026SF: Total Cyanide	57-12-5	20 mg/kg	83.8	70.0	130
EK040T: Fluoride Total (QCLot: 4316697)							
EM2207664-002	Anonymous	EK040T: Fluoride	16984-48-8	400 mg/kg	76.8	70.0	130
EK040T: Fluoride Total (QCLot: 4316698)							
EM2207807-008	SX_OB_20220430_16_02_SS_Primary_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	74.2	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4316040)							
EM2207719-005	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	100	59.6	152
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4316043)							
EM2207664-003	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	103	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4314584)							
EM2207807-002	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	96.5	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	103	55.1	124
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4314585)							
EM2207807-016	SX_IB_20220501_12_15_SS_Primary_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	78.8	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	82.7	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4314584)							



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike Concentration	Spike Recovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP074I: Volatile Halogenated Compounds (QCLot: 4314584) - continued							
EM2207807-002	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	2 mg/kg	77.7	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	88.2	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	94.2	55.5	122
EP074I: Volatile Halogenated Compounds (QCLot: 4314585)							
EM2207807-016	SX_IB_20220501_12_15_SS_Primary_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	2 mg/kg	67.0	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	76.0	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	77.7	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4316042)							
EM2207719-002	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	87.1	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	95.4	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	77.7	10.0	144
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4316045)							
EM2207664-002	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	85.1	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	88.2	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	78.0	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4316042)							
EM2207719-002	Anonymous	EP075-EM: Phenol	108-95-2	3 mg/kg	92.5	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	78.8	34.2	129
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4316045)							
EM2207664-002	Anonymous	EP075-EM: Phenol	108-95-2	3 mg/kg	88.8	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	79.1	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4316042)							
EM2207719-002	Anonymous	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	83.5	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	88.5	37.8	152
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4316045)							
EM2207664-002	Anonymous	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	79.5	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	85.5	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4314584)							
EM2207807-002	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	94.6	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4314585)							
EM2207807-016	SX_IB_20220501_12_15_SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	73.4	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4316041)							
EM2207719-006	Anonymous	EP071-EM: C10 - C14 Fraction	----	670 mg/kg	110	71.3	126
		EP071-EM: C15 - C28 Fraction	----	2860 mg/kg	108	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1490 mg/kg	99.0	78.1	120



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4316041) - continued							
EM2207719-006	Anonymous	EP071-EM: C10 - C36 Fraction (sum)	----	5020 mg/kg	105	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4316044)							
EM2207664-009	Anonymous	EP071-EM: C10 - C14 Fraction	----	670 mg/kg	94.8	71.3	126
		EP071-EM: C15 - C28 Fraction	----	2860 mg/kg	107	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1490 mg/kg	103	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5020 mg/kg	104	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4314584)							
EM2207807-002	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	92.2	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4314585)							
EM2207807-016	SX_IB_20220501_12_15_SS_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	69.0	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4316041)							
EM2207719-006	Anonymous	EP071-EM: >C10 - C16 Fraction	----	1000 mg/kg	104	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	3770 mg/kg	110	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	250 mg/kg	115	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5020 mg/kg	109	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4316044)							
EM2207664-009	Anonymous	EP071-EM: >C10 - C16 Fraction	----	1000 mg/kg	97.0	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	3770 mg/kg	116	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	250 mg/kg	95.3	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5020 mg/kg	111	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4315018)							
EM2207807-002	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	85.1	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	84.2	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	89.0	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	81.1	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	92.4	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	119	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4315022)							
EM2207617-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	87.0	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	75.8	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	91.4	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	101	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	95.5	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	84.5	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4315018)							
EM2207807-002	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	72.5	71.0	135



Sub-Matrix: SOIL

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
				Low	High		
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4315018) - continued							
EM2207807-002	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	88.8	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	79.8	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	89.2	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	89.0	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	88.6	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	72.4	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	89.2	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	79.5	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.00125 mg/kg	74.3	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	95.9	69.0	133
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4315022)							
EM2207617-001	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	76.3	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	91.0	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	88.4	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	91.7	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	88.3	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	106	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	74.0	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	84.1	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	85.7	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.00125 mg/kg	73.2	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	89.2	69.0	133
		EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4315018)					
EM2207807-002	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	87.3	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	80.7	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	84.2	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	75.6	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	93.3	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	107	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	90.1	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4315022)							
EM2207617-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	93.2	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	85.7	70.0	130



Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4315022) - continued							
EM2207617-001	Anonymous	EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	74.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	78.5	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	85.1	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	91.8	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	85.2	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4315018)							
EM2207807-002	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	88.7	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	96.9	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	95.1	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	78.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4315022)							
EM2207617-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	98.1	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	95.9	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	97.6	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	76.4	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4317373)							
EM2207797-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	102	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	92.0	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	98.8	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	102	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	88.5	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	91.0	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318654)							
EM2207807-004	SX_IB_20220430_11_51_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	90.0	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	109	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	115	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	120	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	87.7	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	98.5	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318698)							



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318698) - continued							
EM2207807-029	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	102	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	99.4	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	97.0	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	114	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	92.3	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	70.2	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318981)							
EM2207616-013	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	94.6	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	98.6	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	90.4	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	97.4	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	87.6	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	86.4	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4318982)							
EM2207807-025	SX_IB_20220501_23_56_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	100	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	104	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	110	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	116	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	112	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	127	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4317373)							
EM2207797-001	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	95.4	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	102	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	99.0	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	95.4	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	93.0	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	98.5	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	96.6	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	89.1	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	96.5	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	81.0	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	102	71.0	132
		EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318654)					
EM2207807-004	SX_IB_20220430_11_51_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	87.6	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	88.2	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	113	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	90.3	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	93.5	71.0	133



Sub-Matrix: WATER

				Matrix Spike (MS) Report					
				Spike	SpikeRecovery(%)	Acceptable Limits (%)			
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High		
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318654) - continued									
EM2207807-004	SX_IB_20220430_11_51_SS_Primary_ALS	EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	100	69.0	130		
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	92.7	71.0	129		
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	83.9	69.0	133		
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	106	72.0	134		
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	80.7	65.0	144		
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	117	71.0	132		
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318698)									
EM2207807-029	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	87.4	73.0	129		
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	106	72.0	129		
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	90.7	72.0	129		
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	100	72.0	130		
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	98.9	71.0	133		
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	105	69.0	130		
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	79.9	71.0	129		
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	89.4	69.0	133		
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	# 71.8	72.0	134		
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	# 44.1	65.0	144		
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	# 53.0	71.0	132				
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318981)									
EM2207616-013	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	94.4	73.0	129		
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	96.8	72.0	129		
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	85.0	72.0	129		
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	92.1	72.0	130		
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	93.5	71.0	133		
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	95.1	69.0	130		
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	81.8	71.0	129		
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	92.1	69.0	133		
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	93.8	72.0	134		
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	85.5	65.0	144		
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	103	71.0	132		
		EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318982)							
		EM2207807-025	SX_IB_20220501_23_56_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	104	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3			0.25 µg/L	83.4	72.0	129		
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4			0.25 µg/L	109	72.0	129		
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9			0.25 µg/L	92.8	72.0	130		
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1			0.25 µg/L	94.3	71.0	133		
EP231X: Perfluorononanoic acid (PFNA)	375-95-1			0.25 µg/L	84.3	69.0	130		
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2			0.25 µg/L	91.3	71.0	129		



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
Laboratory sample ID		Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery(%) MS	Acceptable Limits (%) Low High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4318982) - continued							
EM2207807-025	SX_IB_20220501_23_56_SS_Primary_ALS	EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	83.2	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	110	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	90.4	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	109	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4317373)							
EM2207797-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	98.7	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	104	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	94.5	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	94.1	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	99.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	100	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	102	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318654)							
EM2207807-004	SX_IB_20220430_11_51_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	109	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	98.1	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	95.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	93.4	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	103	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	105	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	97.9	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318698)							
EM2207807-029	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	95.5	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	# 63.0	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	# 46.2	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	82.8	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	72.0	70.0	130



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318698) - continued							
EM2207807-029	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	77.3	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	# 56.2	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318981)							
EM2207616-013	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	98.8	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	106	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	99.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	90.6	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	92.1	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	100	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	95.2	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4318982)							
EM2207807-025	SX_IB_20220501_23_56_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	105	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	133	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	123	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	96.9	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	106	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	106	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	101	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4317373)							
EM2207797-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	95.8	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	100	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	99.7	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	88.6	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4318654)							
EM2207807-004	SX_IB_20220430_11_51_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	104	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	99.7	64.0	140



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4318654) - continued							
EM2207807-004	SX_IB_20220430_11_51_SS_Primary_ALS	EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	106	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# 66.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4318698)							
EM2207807-029	SX_IB_20220430_07_51_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	102	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	111	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	106	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# 54.0	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4318981)							
EM2207616-013	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	95.8	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	99.1	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	108	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	83.6	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4318982)							
EM2207807-025	SX_IB_20220501_23_56_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	102	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	108	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	99.8	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# 66.7	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EM2207807	Page	: 1 of 26
Amendment	: 1		
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Telephone	: +61-3-8549 9600
Project	: JC0927	Date Samples Received	: 02-May-2022
Site	: 20220502042154-ALS-21	Issue Date	: 09-May-2022
Sampler	: WOH + TB + DL + LR	No. of samples received	: 50
Order number	: ----	No. of samples analysed	: 48

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- Laboratory Control outliers exist - please see following pages for full details.
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP075I: Organochlorine Pesticides	QC-4316045-001	----	Endrin aldehyde	7421-93-4	68.2 %	69.0-143%	Recovery less than lower control limit

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP231B: Perfluoroalkyl Carboxylic Acids	EM2207807--029	SX_IB_20220430_07_51_SS_	Perfluorododecanoic acid (PFDoDA)	307-55-1	71.8 %	72.0-134%	Recovery less than lower data quality objective
EP231B: Perfluoroalkyl Carboxylic Acids	EM2207807--029	SX_IB_20220430_07_51_SS_	Perfluorotridecanoic acid (PFTrDA)	72629-94-8	44.1 %	65.0-144%	Recovery less than lower data quality objective
EP231B: Perfluoroalkyl Carboxylic Acids	EM2207807--029	SX_IB_20220430_07_51_SS_	Perfluorotetradecanoic acid (PFTeDA)	376-06-7	53.0 %	71.0-132%	Recovery less than lower data quality objective
EP231C: Perfluoroalkyl Sulfonamides	EM2207807--029	SX_IB_20220430_07_51_SS_	N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	63.0 %	68.0-141%	Recovery less than lower data quality objective
EP231C: Perfluoroalkyl Sulfonamides	EM2207807--029	SX_IB_20220430_07_51_SS_	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	46.2 %	70.0-130%	Recovery less than lower data quality objective
EP231C: Perfluoroalkyl Sulfonamides	EM2207807--029	SX_IB_20220430_07_51_SS_	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	56.2 %	61.0-135%	Recovery less than lower data quality objective
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2207807--004	SX_IB_20220430_11_51_SS_	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	66.7 %	70.0-130%	Recovery less than lower data quality objective
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2207807--029	SX_IB_20220430_07_51_SS_	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	54.0 %	70.0-130%	Recovery less than lower data quality objective
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2207807--025	SX_IB_20220501_23_56_SS_	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	66.7 %	70.0-130%	Recovery less than lower data quality objective

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for **VOC in soils** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA001: pH in soil using 0.01M CaCl extract								
Soil Glass Jar - Unpreserved (EA001)								
SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	04-May-2022	08-May-2022	✓	04-May-2022	04-May-2022	✓
Soil Glass Jar - Unpreserved (EA001)								
SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	04-May-2022	09-May-2022	✓	04-May-2022	04-May-2022	✓
Soil Glass Jar - Unpreserved (EA001)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	04-May-2022	07-May-2022	✓	04-May-2022	04-May-2022	✓
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	----	----	----	03-May-2022	15-May-2022	✓
Soil Glass Jar - Unpreserved (EA055)								
SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	----	----	----	03-May-2022	16-May-2022	✓
Soil Glass Jar - Unpreserved (EA055)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	----	----	----	03-May-2022	14-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	29-Oct-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	29-Oct-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	03-May-2022	27-Oct-2022	✓	04-May-2022	27-Oct-2022	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	03-May-2022	29-May-2022	✓	04-May-2022	29-May-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	30-May-2022	✓	04-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	03-May-2022	28-May-2022	✓	04-May-2022	28-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	03-May-2022	29-May-2022	✓	04-May-2022	10-May-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	30-May-2022	✓	04-May-2022	10-May-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	03-May-2022	28-May-2022	✓	04-May-2022	10-May-2022	✓
EK026SF: Total CN by Segmented Flow Analyser								
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	04-May-2022	15-May-2022	✓	05-May-2022	18-May-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	04-May-2022	16-May-2022	✓	05-May-2022	18-May-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	04-May-2022	14-May-2022	✓	05-May-2022	18-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EK040T: Fluoride Total								
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	04-May-2022	29-May-2022	✓	06-May-2022	29-May-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	04-May-2022	30-May-2022	✓	06-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	04-May-2022	28-May-2022	✓	06-May-2022	28-May-2022	✓
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)								
SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	03-May-2022	29-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	29-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	03-May-2022	27-Oct-2022	✓	----	----	----



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_OB_20220501_00_12_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_19_58_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	29-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_IB_20220502_04_06_SS_Primary_ALS	02-May-2022	03-May-2022	29-Oct-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_IB_20220430_07_47_SS_Primary_ALS, SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	30-Apr-2022	03-May-2022	27-Oct-2022	✓	----	----	----
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB_20220501_00_12_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_19_58_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	04-May-2022	15-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM) SX_IB_20220502_04_06_SS_Primary_ALS	02-May-2022	04-May-2022	16-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM) SX_IB_20220430_07_47_SS_Primary_ALS, SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS,	01-May-2022	02-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	09-May-2022	✓	03-May-2022	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	02-May-2022	07-May-2022	✓	03-May-2022	07-May-2022	✓
EP074H: Naphthalene								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS,	01-May-2022	02-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	09-May-2022	✓	03-May-2022	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	02-May-2022	07-May-2022	✓	03-May-2022	07-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP074I: Volatile Halogenated Compounds								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS,	01-May-2022	02-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	09-May-2022	✓	03-May-2022	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	02-May-2022	07-May-2022	✓	03-May-2022	07-May-2022	✓
EP075A: Phenolic Compounds (Halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	04-May-2022	15-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	04-May-2022	16-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP075A: Phenolic Compounds (Non-halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	04-May-2022	15-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	04-May-2022	16-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	04-May-2022	15-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	04-May-2022	16-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓



Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	04-May-2022	15-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	04-May-2022	16-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS,	01-May-2022	02-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	04-May-2022	15-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	09-May-2022	✓	03-May-2022	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	04-May-2022	16-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	02-May-2022	07-May-2022	✓	03-May-2022	07-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS,	01-May-2022	02-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	08-May-2022	✓	03-May-2022	08-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS,	01-May-2022	04-May-2022	15-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	09-May-2022	✓	03-May-2022	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	04-May-2022	16-May-2022	✓	04-May-2022	13-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	02-May-2022	07-May-2022	✓	03-May-2022	07-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	04-May-2022	14-May-2022	✓	04-May-2022	13-Jun-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis				
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation		
EP231A: Perfluoroalkyl Sulfonic Acids									
HDPE Soil Jar (EP231X) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS,	01-May-2022	03-May-2022	28-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	03-May-2022	27-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	
EP231B: Perfluoroalkyl Carboxylic Acids									
HDPE Soil Jar (EP231X) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS,	01-May-2022	03-May-2022	28-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	03-May-2022	27-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis				
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation		
EP231C: Perfluoroalkyl Sulfonamides									
HDPE Soil Jar (EP231X) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS,	01-May-2022	03-May-2022	28-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	03-May-2022	27-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
HDPE Soil Jar (EP231X) SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS,	01-May-2022	03-May-2022	28-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X) SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	03-May-2022	27-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	



Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis				
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation		
EP231P: PFAS Sums									
HDPE Soil Jar (EP231X)									
SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS	SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS,	01-May-2022	03-May-2022	28-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X)									
SX_IB_20220501_19_58_SS_Primary_ALS,	SX_IB_20220501_23_56_SS_Primary_ALS	01-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X)									
SX_IB_20220502_04_06_SS_Primary_ALS		02-May-2022	03-May-2022	29-Oct-2022	✓	04-May-2022	12-Jun-2022	✓	
HDPE Soil Jar (EP231X)									
SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS,	30-Apr-2022	03-May-2022	27-Oct-2022	✓	03-May-2022	12-Jun-2022	✓	

Matrix: **WATER**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation



Matrix: **WATER**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS, SX_IB_20220502_04_06_SS_Primary_ALS, SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_OB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS, SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS,	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS,	03-May-2022	04-May-2022	30-Oct-2022	✓	04-May-2022	30-Oct-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220430_20_14_SR_Rinsate_ALS,	SX_OB_20220430_20_15_SB_Blank_ALS	30-Apr-2022	04-May-2022	27-Oct-2022	✓	04-May-2022	27-Oct-2022	✓



Matrix: **WATER**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_OB_20220501_08_20_SS_Duplicate_ALS, SX_OB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_21_SS_Primary_ALS, SX_OB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_OB_20220501_19_58_SS_Primary_ALS, SX_OB_20220502_04_06_SS_Primary_ALS, SX_OB_20220430_07_51_SS_Duplicate_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_00_12_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_OB_20220501_08_17_SS_Primary_ALS, SX_OB_20220501_08_20_SS_Duplicate_ALS, SX_OB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_21_SS_Primary_ALS, SX_OB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_OB_20220501_19_49_SS_Primary_ALS, SX_OB_20220501_19_58_SS_Primary_ALS, SX_OB_20220501_23_56_SS_Primary_ALS,	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_55_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS, SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_OB_20220501_08_17_SS_Primary_ALS, SX_OB_20220501_08_20_SS_Duplicate_ALS, SX_OB_20220501_12_21_SS_Primary_ALS, SX_OB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_OB_20220501_19_58_SS_Primary_ALS, SX_IB_20220502_04_06_SS_Primary_ALS	03-May-2022	04-May-2022	30-Oct-2022	✓	04-May-2022	30-Oct-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220430_20_14_SR_Rinsate_ALS,	SX_OB_20220430_20_15_SB_Blank_ALS	30-Apr-2022	04-May-2022	27-Oct-2022	✓	04-May-2022	27-Oct-2022	✓



Matrix: **WATER**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_51_SS_Primary_ALS, SX_OB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_OB_20220501_08_20_SS_Duplicate_ALS, SX_OB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_21_SS_Primary_ALS, SX_OB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_OB_20220501_19_58_SS_Primary_ALS, SX_OB_20220502_04_06_SS_Primary_ALS, SX_OB_20220430_07_51_SS_Duplicate_ALS, SX_OB_20220430_11_51_SS_Primary_ALS, SX_OB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_OB_20220501_08_20_SS_Duplicate_ALS, SX_OB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_21_SS_Primary_ALS, SX_OB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_OB_20220501_19_58_SS_Primary_ALS, SX_OB_20220501_23_56_SS_Primary_ALS,	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS, SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS, SX_IB_20220502_04_06_SS_Primary_ALS	03-May-2022	04-May-2022	30-Oct-2022	✓	04-May-2022	30-Oct-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220430_20_14_SR_Rinsate_ALS,	SX_OB_20220430_20_15_SB_Blank_ALS	30-Apr-2022	04-May-2022	27-Oct-2022	✓	04-May-2022	27-Oct-2022	✓



Matrix: **WATER**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS, SX_IB_20220502_04_06_SS_Primary_ALS, SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_OB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS, SX_IB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS,	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_51_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS, SX_OB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_OB_20220501_19_58_SS_Primary_ALS, SX_IB_20220502_04_06_SS_Primary_ALS	03-May-2022	04-May-2022	30-Oct-2022	✓	04-May-2022	30-Oct-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220430_20_14_SR_Rinsate_ALS,	SX_OB_20220430_20_15_SB_Blank_ALS	30-Apr-2022	04-May-2022	27-Oct-2022	✓	04-May-2022	27-Oct-2022	✓



Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X)								
SX_IB_20220430_07_47_SS_Primary_ALS, SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS, SX_IB_20220502_04_06_SS_Primary_ALS, SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_OB_20220430_08_01_SS_Primary_ALS, SX_IB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_00_12_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS,	SX_IB_20220430_07_51_SS_Duplicate_ALS, SX_IB_20220430_11_55_SS_Primary_ALS, SX_IB_20220430_15_52_SS_Primary_ALS, SX_OB_20220430_16_02_SS_Primary_ALS, SX_OB_20220501_00_12_SS_Primary_ALS, SX_IB_20220501_08_17_SS_Primary_ALS, SX_IB_20220501_12_15_SS_Primary_ALS, SX_OB_20220501_12_24_SS_Primary_ALS, SX_IB_20220501_16_18_SS_Primary_ALS, SX_IB_20220501_19_49_SS_Primary_ALS, SX_IB_20220501_23_56_SS_Primary_ALS, SX_OB_20220430_07_47_SS_Primary_ALS, SX_OB_20220430_11_55_SS_Primary_ALS, SX_OB_20220430_15_58_SS_Triplicate_ALS, SX_OB_20220430_20_08_SS_Primary_ALS, SX_OB_20220501_04_13_SS_Primary_ALS, SX_OB_20220501_08_20_SS_Duplicate_ALS, SX_IB_20220501_12_21_SS_Primary_ALS, SX_OB_20220501_16_12_SS_Primary_ALS, SX_OB_20220501_16_24_SS_Triplicate_ALS, SX_IB_20220501_19_58_SS_Primary_ALS, SX_IB_20220502_04_06_SS_Primary_ALS	03-May-2022	04-May-2022	30-Oct-2022	✓	04-May-2022	30-Oct-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220430_20_14_SR_Rinsate_ALS,	SX_OB_20220430_20_15_SB_Blank_ALS	30-Apr-2022	04-May-2022	27-Oct-2022	✓	04-May-2022	27-Oct-2022	✓



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	4	36	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	31	12.90	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	31	12.90	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	4	23	17.39	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	31	6.45	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	31	6.45	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	23	8.70	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	2	23	8.70	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	31	6.45	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	31	6.45	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	23	8.70	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Matrix: **SOIL** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	31	6.45	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	31	6.45	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	23	8.70	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Regular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	9	70	12.86	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	5	70	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	5	70	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	5	70	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl ₂ extract	EA001	SOIL	In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Total Cyanide by Segmented Flow Analyser	EK026SF	SOIL	In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3).
Total Fluoride	EK040T	SOIL	(In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.
PCB - VIC EPA 448.3 Screen	EP066-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071-EM	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
Volatile Organic Compounds - Ultra-trace	EP074-UT	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).



Analytical Methods	Method	Matrix	Method Descriptions
Volatile Organic Compounds - Ultra-trace - Summations	EP074-UT-SUM	SOIL	Summation of MAHs and VHCs
Semivolatile Organic Compounds - Waste Classification	EP075-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
SVOC - Waste Classification (Sums)	EP075-EM-SUM	SOIL	Summations for EP075 (EM variation)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
NaOH leach for CN in Soils	CN-PR	SOIL	In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.
pH in soil using a 0.01M CaCl ₂ extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Total Fluoride	EK040T-PR	SOIL	In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils - Ultra-trace.	ORG16-UT	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids - VIC EPA Screen	ORG17-EM	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
QuEChERS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	SOIL	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.