TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	C07.0320220615151835_01	This report is attached as part of a WCR form referencing WGT-302-000-WKN-CJH-105-SWI-0001_01

1. Motherhub Summary

Source TBM/Bin at Pivot	1	Source Geological Domain	5
Approx. Source Tunnel Chainage From	863	Approx. Source Tunnel Chainage To	879
Approx. Rings From	363	Approx. Rings To	369
Foaming Agent	TamSoil 287AC	Water Source	Potable (City West Water)
For BSF Holding Bay No:	C07.03	Start of Filling From (Time / date)	05/06/2022
Tonnes Put in Holding Bay No:	7623.84	Finish of Filling (Time / Date)	06/06/2022
Classified Volume (LCM)	4000	Spoil Classification Decision	NPIW Containment
Sampling Ratio (samples per LCM)	1 : 222.22	Approx. Bank Cubic Meters (BCM)	3058.15

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, is 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

Table 3.1 - Applicable Sample ID's

Table 3.1 - 1 Applicable Sample ID's

Applicable Spoil Sample ID's		
SX_OB_20220606_04_24_SS_Triplicate_ALS	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_EUF
SX_OB_20220606_04_23_SS_Duplicate_EUF	SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_16_00_SS_Primary_EUF
SX_OB_20220606_04_22_SS_Primary_EUF	SX_OB_20220605_19_53_SS_Duplicate_ALS	SX_OB_20220605_12_17_SS_Primary_EUF
SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_12_12_SS_Triplicate_EUF
SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_12_11_SS_Duplicate_ALS
SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
Total Sample Numbers	18	Ratio Acceptable
Primary Sample Numbers	10	Yes
Classified Volume (LCM)	4000 m^3	
Volume: Sample Number Ratio (Samples per LCM)	1 : 222.22	

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

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)
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 If the answer is Yes, go to E. If the answer is No, go to B.	**No**
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? If the answer is Yes, go to C. If the answer is No, go to D.	**Yes**
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)?	**No**
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)?	**N/A**
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?	**Yes, see section 4**
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?	**No**

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 TC0?	**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**
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	

Notes:

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

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	18*	10	1 : 222.22	18	36	55.5	68.11	170	20	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Nickel	mg/kg	5	18*	10	1 : 222.22	18	93	114.4	121.6	160	60	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	18*	10	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFOA	ug/kg	5	18*	10	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFHxS	ug/kg	5	18*	10	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
ASLP (pH= 5) PFAS Concentrations											
PFOA	ug/L	0.01	18*	10	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	18*	10	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment
ASLP (pH= 7) PFAS Concentrations											
PFOA	ug/L	0.01	18*	10	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	18*	10	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)

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												

4. Comments and Limitations

	Comments and Limitations
1.	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: 1. Technical discussion around the naturally occurring metal concentrations found in soils beneath the WGTP is detailed in *Golder (2017b) – Technical Report B, Appendix E – Environmental characterisation of spoil (natural soil and rock).* 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. a. **Arsenic** – *Golder (2017b) – Technical Report B, Appendix E* section 6.2 *Arsenic enrichment in the residual soil of the upper Older Volcanics (Tvo1)* 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: 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. 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. b. **Nickel** – *Golder (2017b) – Technical Report B, Appendix E* section 6.3 *Nickel enrichment within the upper Older Volcanics* found that 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.

	iv. Enriched nickel concentrations also corresponded with enriched copper (Tvo2 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. 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.
2.	Default testing regime was implemented for all samples collected for the spoil in this holding bay prior to implementation of the reduced sampling scope, as specified within the SAQP.
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
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.

5. Attachments

ATTACHMENT A: TABULATED RESULTS

ATTACHMENT B: 95% UCL AVE CALCULATIONS

ATTACHMENT C: LABORATORY CERTIFICATES

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ATTACHMENT A: TABULATED RESULTS

										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 Limts										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	Sample Code	Date	Lab Report Number	Lab Name	Sample Type	Parent Sample											
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	EM2210666010	4/06/2022	EM2210666	ALSE-Melbourne	Normal				43	<1	37	79	<1.0	<5	<0.1	<5	118
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	EM2210666030	5/06/2022	EM2210666	ALSE-Melbourne	Normal												
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	EM2210666011	4/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666010			54	<1	40	90	<1.0	6	<0.1	<5	100
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	EM2210666031	5/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666030											
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	M22-Jn0010579	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666010			39	<0.4	36	85	<1	5.8	<0.1	<5	99
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	M22-Jn0010598	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666010											
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	M22-Jn0010615	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666030											
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	M22-Jn0010580	5/06/2022	894859	Eurofins Environment ANZ	Normal				51	<0.4	44	83	<1	5.5	<0.1	<5	120
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	M22-Jn0010599	5/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	M22-Jn0010616	5/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	M22-Jn0010581	5/06/2022	894859	Eurofins Environment ANZ	Normal				65	<0.4	48	100	<1	7.5	<0.1	<5	120
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	M22-Jn0010600	5/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	M22-Jn0010617	5/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	M22-Jn0010582	5/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010581			48	<0.4	40	94	<1	6.9	<0.1	<5	110
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	M22-Jn0010601	5/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010600											
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	M22-Jn0010618	5/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010617											
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	EM2210666012	4/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010581			46	<1	36	72	<1.0	5	<0.1	<5	100
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	EM2210666032	5/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010617											
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	EM2210666013	4/06/2022	EM2210666	ALSE-Melbourne	Normal				47	<1	38	79	<1.0	5	<0.1	<5	106
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	EM2210666033	5/06/2022	EM2210666	ALSE-Melbourne	Normal												
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	EM2210666015	4/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666014			47	<1	41	81	<1.0	5	0.1	<5	106
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	EM2210666035	5/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666034											
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	EM2210666014	4/06/2022	EM2210666	ALSE-Melbourne	Normal				52	<1	41	83	<1.0	7	<0.1	<5	127
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	EM2210666034	5/06/2022	EM2210666	ALSE-Melbourne	Normal												
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	M22-Jn0010585	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666014			58	<0.4	51	120	<1	6.8	<0.1	<5	120
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	M22-Jn0010602	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666014											
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	M22-Jn0010619	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666034											
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	M22-Jn0010586	5/06/2022	894859	Eurofins Environment ANZ	Normal				83	<0.4	61	120	<1	9.0	<0.1	<5	140
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	M22-Jn0010603	5/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	M22-Jn0010620	5/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	M22-Jn0010587	5/06/2022	894859	Eurofins Environment ANZ	Normal				170	<0.4	67	140	<1	33	<0.1	5.7	160
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	M22-Jn0010604	5/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	M22-Jn0010621	5/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	EM2210666016	4/06/2022	EM2210666	ALSE-Melbourne	Normal				38	<1	80	61	<1.0	<5	0.1	<5	128
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	EM2210666036	5/06/2022	EM2210666	ALSE-Melbourne	Normal												
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	EM2210666017	4/06/2022	EM2210666	ALSE-Melbourne	Normal				37	<1	35	64	<1.0	5	0.1	<5	93
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	EM2210666037	6/06/2022	EM2210666	ALSE-Melbourne	Normal												
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	M22-Jn0010588	6/06/2022	894859	Eurofins Environment ANZ	Normal				42	<0.4	41	91	<1	7.3	<0.1	<5	100
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	M22-Jn0010605	6/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	M22-Jn0010622	6/06/2022	894859	Eurofins Environment ANZ	Normal												
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	M22-Jn0010589	6/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010588			43	<0.4	43	91	<1	6.8	<0.1	<5	120
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	M22-Jn0010606	6/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010605											
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	M22-Jn0010623	6/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010622											
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	EM2210666018	4/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010588			36	<1	33	72	<1.0	<5	<0.1	<5	93
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	EM2210666038	6/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010622											

						PAH																
		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)	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
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		2	2	10	5	0.5	1	0.5	0.5	0.5	0.5	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		200	720		140,000	400									20							
EPA Victoria IWRG621 Category C Leached Upper Limits																						
EPA Victoria IWRG621 Category C Upper Limts		50	180	500	35,000	100									5							
EPA Victoria IWRG621 Fill Upper Limits		10	10	50	200	20									1							
Location Code	**Field ID**																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																					
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<2	<2	<10	78			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	<2	<2	<10	77			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<2	<2	<10	87			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<2	<2	<10	79			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																					
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	<5	<2	<10	76	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<5	<2	<10	70	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<5	<2	<10	64	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<2	<2	<10	120			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	<2	<2	<10	110			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	<2	<2	<10	150			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	<5	<2	<10	148	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	<5	<2	<10	59	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<2	<2	<10	79			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<2	<2	<10	79			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																					

							BTEX						TRH							TPH		
		Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	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	C15-C28
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.1	0.1	0.1	0.1	0.2	0.3	20	20	50	50	100	100	50	20	20	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						400	16													2,600		
EPA Victoria IWRG621 Category C Leached Upper Limits																						
EPA Victoria IWRG621 Category C Upper Limts						100	4													650		
EPA Victoria IWRG621 Fill Upper Limits						20	1													100		
Location Code	**Field ID**																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																					
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																					
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																					

				Organochlorine Pesticides																		
		C29-C36	+C10-C36 (Sum of total)	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.03	0.03	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			40,000			4.8				50							16				4.8	
EPA Victoria IWRG621 Category C Leached Upper Limits																						
EPA Victoria IWRG621 Category C Upper Limts			10,000			1.2				50							4				1.2	
EPA Victoria IWRG621 Fill Upper Limits			1,000																			
Location Code	**Field ID**																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																					
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																					
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																					

																							Phenols
		a-BHC	b-BHC	d-BHC	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	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
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.5	0.1	0.03	0.5	0.5	1	1	0.5	1	1	0.05	5	10	0.03	0.5	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									50													
EPA Victoria IWRG621 Category C Leached Upper Limits																						
EPA Victoria IWRG621 Category C Upper Limts									10													
EPA Victoria IWRG621 Fill Upper Limits								1														
Location Code	**Field ID**																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																					
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																					
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																					

		Phenols (halogenated) EPAVic	Phenols (non-halogenated) EPAVic	2,4-Dimethylphenol	2-Methylphenol	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 acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid (6:2 FTS)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL		1	20	0.5	0.2	1	5	0.4	5	20	0.5	1	20	0.00001	0.005	0.00001	0.005	0.00005	0.01	0.00001	0.005	0.00005
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 Limts		10	560																			
EPA Victoria IWRG621 Fill Upper Limits		1	60																			
Location Code	**Field ID**																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS													<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS													<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005		<0.01		<0.005	
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005		<0.01		<0.005	
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005		<0.01		<0.005	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005		<0.01		<0.005	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS													<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS													<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS													<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS													<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005		<0.01		<0.005	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005		<0.01		<0.005	
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005		<0.01		<0.005	
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS													<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS													<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005		<0.01		<0.005	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005		<0.01		<0.005	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF													<0.00001		<0.00001		<0.00005		<0.00001		<0.00005
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS													<0.00005		<0.00005		<0.00005		<0.00005		<0.00005

		sulfonamide (NEtFOSA)		N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)		N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)		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	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
EQL		0.005	0.00005	0.01	0.00005	0.005	0.00005	0.005	0.00005	0.01	0.00005	0.005	0.00005	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 Limts																							
EPA Victoria IWRG621 Fill Upper Limits																							
Location Code	**Field ID**																						
C07.03	**SX_OB_20220605_12_09_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	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002		
C07.03	**SX_OB_20220605_12_11_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	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C07.03	**SX_OB_20220605_12_11_SS_Duplicate_ALS**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002		
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_12_17_SS_Primary_EUF**	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	**SX_OB_20220605_12_17_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_12_17_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_16_00_SS_Primary_EUF**	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	**SX_OB_20220605_16_00_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_16_00_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_16_02_SS_Duplicate_EUF**	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	**SX_OB_20220605_16_02_SS_Duplicate_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_16_02_SS_Duplicate_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_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	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C07.03	**SX_OB_20220605_16_03_SS_Triplicate_ALS**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002		
C07.03	**SX_OB_20220605_16_08_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	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C07.03	**SX_OB_20220605_16_08_SS_Primary_ALS**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002		
C07.03	**SX_OB_20220605_19_53_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	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C07.03	**SX_OB_20220605_19_53_SS_Duplicate_ALS**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002		
C07.03	**SX_OB_20220605_19_53_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	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002		
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_20_00_SS_Primary_EUF**	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	**SX_OB_20220605_20_00_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_20_00_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_23_51_SS_Primary_EUF**	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	**SX_OB_20220605_23_51_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_23_51_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220605_23_56_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	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C07.03	**SX_OB_20220605_23_56_SS_Primary_ALS**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002		
C07.03	**SX_OB_20220606_04_17_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	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C07.03	**SX_OB_20220606_04_17_SS_Primary_ALS**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002		
C07.03	**SX_OB_20220606_04_22_SS_Primary_EUF**	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	**SX_OB_20220606_04_22_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220606_04_22_SS_Primary_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220606_04_23_SS_Duplicate_EUF**	<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	**SX_OB_20220606_04_23_SS_Duplicate_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220606_04_23_SS_Duplicate_EUF**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001		
C07.03	**SX_OB_20220606_04_24_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	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C07.03	**SX_OB_20220606_04_24_SS_Triplicate_ALS**		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002		<0.00002		

	PFOS/PFOA																					
		Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane sulfonic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)		Perfluorononanoic acid (PFNA)		Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid (PFOA)		Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		Perfluoropropanesulfonic acid (PFPrS)		Perfluorotetradecanoic acid
		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	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	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00005	0.005	0.00001	0.005	0.00001	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 Limts																						
EPA Victoria IWRG621 Fill Upper Limits																						
Location Code	**Field ID**																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002				<0.00005
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002				<0.00005
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_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	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002				<0.00005
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002				<0.00005
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002				<0.00005
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002				<0.00005
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002				<0.00005
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002				<0.00005
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001		<0.00001
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002				<0.00005

		(PFTeDA)	Perfluorotridecanoic acid (PFTrDA)		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 (PFHxS + PFOS + PFOA)*		Sum of PFAS	Sum of PFAS	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane
		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	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	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	0.00001	0.005	0.00001	0.005	0.0001	0.05	0.5	0.5	0.5	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 Limts																						
EPA Victoria IWRG621 Fill Upper Limits																						
Location Code	**Field ID**																					
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010					
C07.03	**SX_OB_20220605_12_11_SS_Duplicate_ALS**	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50
C07.03	**SX_OB_20220605_12_11_SS_Duplicate_ALS**		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010					
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_12_17_SS_Primary_EUF**	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220605_12_17_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_12_17_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_16_00_SS_Primary_EUF**	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220605_16_00_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_16_00_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_16_02_SS_Duplicate_EUF**	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220605_16_02_SS_Duplicate_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_16_02_SS_Duplicate_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_16_03_SS_Triplicate_ALS**	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50
C07.03	**SX_OB_20220605_16_03_SS_Triplicate_ALS**		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010					
C07.03	**SX_OB_20220605_16_08_SS_Primary_ALS**	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50
C07.03	**SX_OB_20220605_16_08_SS_Primary_ALS**		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010					
C07.03	**SX_OB_20220605_19_53_SS_Duplicate_ALS**	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50
C07.03	**SX_OB_20220605_19_53_SS_Duplicate_ALS**		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010					
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010					
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_20_00_SS_Primary_EUF**	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220605_20_00_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_20_00_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_23_51_SS_Primary_EUF**	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220605_23_51_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_23_51_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220605_23_56_SS_Primary_ALS**	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50
C07.03	**SX_OB_20220605_23_56_SS_Primary_ALS**		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010					
C07.03	**SX_OB_20220606_04_17_SS_Primary_ALS**	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50
C07.03	**SX_OB_20220606_04_17_SS_Primary_ALS**		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010					
C07.03	**SX_OB_20220606_04_22_SS_Primary_EUF**	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220606_04_22_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220606_04_22_SS_Primary_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220606_04_23_SS_Duplicate_EUF**	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220606_04_23_SS_Duplicate_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220606_04_23_SS_Duplicate_EUF**		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001					
C07.03	**SX_OB_20220606_04_24_SS_Triplicate_ALS**	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50
C07.03	**SX_OB_20220606_04_24_SS_Triplicate_ALS**		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010					

		Chlorinated Hydrocarbons																				
		1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane	1,1,1-trichloroethane	Chloroform	1,1,2,2-tetrachloroethane	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	Vinyl chloride	Bromoform
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	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						4.8	
EPA Victoria IWRG621 Category C Leached Upper Limits																						
EPA Victoria IWRG621 Category C Upper Limts														2.8	10						1.2	
EPA Victoria IWRG621 Fill Upper Limits																	1					
Location Code	**Field ID**																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS				<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																					
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS				<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_12_12_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_17_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_02_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS				<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																					
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS				<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS				<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS				<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_54_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_20_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS				<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS				<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_23_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS				<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																					

							NA		PCBs								Inorganics				
		Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	Moisture Content	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	pH (aqueous extract)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	UG/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		0.05	1	0.1	0.1	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 Limts																						
EPA Victoria IWRG621 Fill Upper Limits																2						
Location Code	**Field ID**																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.50			<0.50	<0.50	<0.05	<10.0	29.4							<0.1	1.4	5.1	7.9	5.0		
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS						<0.05											6.5				
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.50			<0.50	<0.50	<0.05	<10.0	30.4							<0.1	1.5	5.1	8.1	5.0		
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS						<0.05											8.8				
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					6.3
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF							<0.05											5.9		5.0	
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF							<0.05											7.8		6.7	
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.8
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF							<0.05											6.0		5.0	
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF							<0.05											8.0		6.7	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.5
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF							<0.05											6.0		5.0	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF							<0.05											8.1		6.7	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.0
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF							<0.05											5.3		5.0	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF							<0.05											8.3		6.7	
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.50			<0.50	<0.50	<0.05	<10.0	28.3							<0.1	1.5	5.1	8.6	5.0		
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS						<0.05											9.4				
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	<0.50			<0.50	<0.50	<0.05	<10.0	27.7							<0.1	1.4	5.1	8.1	5.0		
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS						<0.05											9.5				
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.50			<0.50	<0.50	<0.05	<10.0	30.6							<0.1	1.5	5.1	7.9	5.0		
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS						<0.05											9.1				
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.50			<0.50	<0.50	<0.05	<10.0	29.1							<0.1	1.5	5.1	8.2	5.0		
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS						<0.05											8.7				
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					6.6
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF							<0.05											5.3		5.0	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF							<0.05											8.2		6.7	
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.7
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF							<0.05											5.3		5.0	
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF							<0.05											8.3		6.7	
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.4
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF							<0.05											5.3		5.0	
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF							<0.05											8.3		6.7	
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	<0.50			<0.50	<0.50	<0.05	<10.0	26.9							<0.1	1.5	5.1	8.2	5.0		
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS						<0.05											9.5				
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	<0.50			<0.50	<0.50	<0.05	<10.0	28.0							<0.1	1.5	5.1	8.6	5.0		
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS						<0.05											9.8				
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF							<0.05											5.3		5.0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF							<0.05											8.5		6.7	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.1
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF							<0.05											5.3		5.0	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF							<0.05											8.5		6.7	
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.50			<0.50	<0.50	<0.05	<10.0	24.4							<0.1	1.5	5.1	8.4	5.0		
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS						<0.05											9.7				

					Halogenated Benzenes							Halogenated Hydrocarbons					MAH					
		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	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocylic 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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		100	1	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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		40,000		10,000														240				
EPA Victoria IWRG621 Category C Leached Upper Limits																						
EPA Victoria IWRG621 Category C Upper Limts		10,000		2,500														70				
EPA Victoria IWRG621 Fill Upper Limits		450		50														7				
Location Code	**Field ID**																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	190		<5	<0.50	<0.50		<0.50			<0.50							<0.5		<0.5		
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																					
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	190		<5	<0.50	<0.50		<0.50			<0.50							<0.5		<0.5		
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<100	24	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<100	28	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<100	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																					
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	200		<5	<0.50	<0.50		<0.50			<0.50							<0.5		<0.5		
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																					
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS	210		<5	<0.50	<0.50		<0.50			<0.50							<0.5		<0.5		
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	200		<5	<0.50	<0.50		<0.50			<0.50							<0.5		<0.5		
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	180		<5	<0.50	<0.50		<0.50			<0.50							<0.5		<0.5		
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	<100	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	<100	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF																					
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS	210		<5	<0.50	<0.50		<0.50			<0.50							<0.5		<0.5		
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS	230		<5	<0.50	<0.50		<0.50			<0.50							<0.5		<0.5		
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<100	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<100	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																					
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	200		<5	<0.50	<0.50		<0.50			<0.50							<0.5		<0.5		
C07.03	SX_OB_20220606_04_24_SS_Triplicate_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 Limts							
EPA Victoria IWRG621 Fill Upper Limits							
Location Code	**Field ID**						
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS						7.7
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS						
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS						7.7
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS						
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF						
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF						
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF						
C07.03	SX_OB_20220605_12_17_SS_Primary_EUF						
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF						
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF						
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF						
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF						
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF						
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF						
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS						7.9
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS						
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS						7.8
C07.03	SX_OB_20220605_16_08_SS_Primary_ALS						
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS						7.8
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS						
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS						7.8
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS						
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF						
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF						
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF						
C07.03	SX_OB_20220605_20_00_SS_Primary_EUF						
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF						
C07.03	SX_OB_20220605_23_51_SS_Primary_EUF						
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS						7.9
C07.03	SX_OB_20220605_23_56_SS_Primary_ALS						
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS						7.9
C07.03	SX_OB_20220606_04_17_SS_Primary_ALS						
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF						
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF						
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF						
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF						
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS						7.9
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS						

							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
Location Code	**Field ID**	**Date**	**Lab Report Number**	**Lab Name**	**Sample Type**	**Parent Sample**									
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	4/06/2022	894859	Eurofins Environment ANZ	Normal		75	<0.4	48	140	<1	8.2	<0.1	<5	110
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF	4/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010573	73	<0.4	51	110	<1	7.0	<0.1	<5	110
RPD							3	0	6	24	0	16	0	0	0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	4/06/2022	894859	Eurofins Environment ANZ	Normal		75	<0.4	48	140	<1	8.2	<0.1	<5	110
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010573	49	<1	41	96	<1.0	6	<0.1	<5	100
RPD							**42**	0	16	37	0	31	0	0	10
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	4/06/2022	894859	Eurofins Environment ANZ	Normal										
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF	4/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010592									
RPD															
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	4/06/2022	894859	Eurofins Environment ANZ	Normal										
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF	4/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010609									
RPD															
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	4/06/2022	894859	Eurofins Environment ANZ	Normal										
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010609									
RPD															
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		50	<1	42	88	<1.0	6	<0.1	<5	110
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666008	46	<1	40	90	<1.0	6	<0.1	<5	113
RPD							8	0	5	2	0	0	0	0	3
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		50	<1	42	88	<1.0	6	<0.1	<5	110
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666008	43	<0.4	40	81	<1	6.2	<0.1	<5	140
RPD							15	0	5	8	0	3	0	0	24
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		50	<1	42	88	<1.0	6	<0.1	<5	110
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666008									
RPD															
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		50	<1	45	88	<1.0	6	<0.1	<5	109
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666001	59	<1	42	95	<1.0	7	<0.1	<5	118
RPD							17	0	7	8	0	15	0	0	8
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		50	<1	45	88	<1.0	6	<0.1	<5	109
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF	4/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666001	62	<0.4	55	99	<1	6.9	<0.1	<5	140
RPD							21	0	20	12	0	14	0	0	25
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		50	<1	45	88	<1.0	6	<0.1	<5	109
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF	4/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666001									
RPD															
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal										
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666021									
RPD															
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal										
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF	4/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666021									
RPD															
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		43	<1	37	79	<1.0	<5	<0.1	<5	118
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666010	54	<1	40	90	<1.0	6	<0.1	<5	100
RPD							23	0	8	13	0	18	0	0	17
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		43	<1	37	79	<1.0	<5	<0.1	<5	118
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666010	39	<0.4	36	85	<1	5.8	<0.1	<5	99
RPD							10	0	3	7	0	15	0	0	18
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		43	<1	37	79	<1.0	<5	<0.1	<5	118
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666010									
RPD															
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		52	<1	41	83	<1.0	7	<0.1	<5	127
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666014	47	<1	41	81	<1.0	5	0.1	<5	106
RPD							10	0	0	2	0	33	0	0	18
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		52	<1	41	83	<1.0	7	<0.1	<5	127
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666014	58	<0.4	51	120	<1	6.8	<0.1	<5	120
RPD							11	0	22	36	0	3	0	0	6
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Normal		52	<1	41	83	<1.0	7	<0.1	<5	127
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666014									
RPD															
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	5/06/2022	894859	Eurofins Environment ANZ	Normal		65	<0.4	48	100	<1	7.5	<0.1	<5	120
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010581	48	<0.4	40	94	<1	6.9	<0.1	<5	110
RPD							30	0	18	6	0	8	0	0	9
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	5/06/2022	894859	Eurofins Environment ANZ	Normal		65	<0.4	48	100	<1	7.5	<0.1	<5	120
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010581	46	<1	36	72	<1.0	5	<0.1	<5	100

							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
RPD							34	0	29	33	0	40	0	0	18
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	5/06/2022	894859	Eurofins Environment ANZ	Normal										
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010600									
RPD															
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	5/06/2022	894859	Eurofins Environment ANZ	Normal										
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010617									
RPD															
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	5/06/2022	894859	Eurofins Environment ANZ	Normal										
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010617									
RPD															
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Normal										
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666028									
RPD															
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Normal										
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666028									
RPD															
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Normal										
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666030									
RPD															
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Normal										
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666030									
RPD															
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Normal										
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Field_D	EM2210666034									
RPD															
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	5/06/2022	EM2210666	ALSE-Melbourne	Normal										
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	5/06/2022	894859	Eurofins Environment ANZ	Interlab_D	EM2210666034									
RPD															
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	6/06/2022	894859	Eurofins Environment ANZ	Normal		42	<0.4	41	91	<1	7.3	<0.1	<5	100
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	6/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010588	43	<0.4	43	91	<1	6.8	<0.1	<5	120
RPD							2	0	5	0	0	7	0	0	18
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	6/06/2022	894859	Eurofins Environment ANZ	Normal		42	<0.4	41	91	<1	7.3	<0.1	<5	100
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	4/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010588	36	<1	33	72	<1.0	<5	<0.1	<5	93
RPD							15	0	22	23	0	37	0	0	7
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	6/06/2022	894859	Eurofins Environment ANZ	Normal										
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	6/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010605									
RPD															
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	6/06/2022	894859	Eurofins Environment ANZ	Normal										
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	6/06/2022	894859	Eurofins Environment ANZ	Field_D	M22-Jn0010622									
RPD															
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	6/06/2022	894859	Eurofins Environment ANZ	Normal										
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	6/06/2022	EM2210666	ALSE-Melbourne	Interlab_D	M22-Jn0010622									
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

						PAH															
		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)	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
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		2	2	10	5	0.5	1	0.5	0.5	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**																				
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<2	<2	<10	80			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF	<2	<2	<10	87			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	8			0	0	0	0	0	0	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<2	<2	<10	80			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS	<5	<2	<10	70	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
RPD		0	0	0	13			0	0	0	0	0	0	0	0		0		0	0	0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<5	<2	<10	68	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	<5	<2	<10	72	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
RPD		0	0	0	6	0	0	0	0	0	0	0	0	0	0		0		0	0	0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<5	<2	<10	68	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	<2	<2	<10	73			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	7			0	0	0	0	0	0	0	0		0		0	0	0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<5	<2	<10	68	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<5	<2	<10	76	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS	<5	<2	<10	77	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
RPD		0	0	0	1	0	0	0	0	0	0	0	0	0	0		0		0	0	0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<5	<2	<10	76	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF	<2	<2	<10	89			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	16			0	0	0	0	0	0	0	0		0		0	0	0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<5	<2	<10	76	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																				
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																				
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0	0	0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<2	<2	<10	78			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	24			0	0	0	0	0	0	0	0		0		0	0	0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<5	<2	<10	64	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<5	<2	<10	70	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
RPD		0	0	0	9	0	0	0	0	0	0	0	0	0	0		0		0	0	0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<5	<2	<10	64	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<2	<2	<10	120			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	**61**			0	0	0	0	0	0	0	0		0		0	0	0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<5	<2	<10	64	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<2	<2	<10	87			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<2	<2	<10	79			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	10			0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<2	<2	<10	87			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5

						PAH															
		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)	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
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		0	0	0	35			0	0	0	0	0	0	0	0		0		0	0	0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																				
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																				
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																				
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																				
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																				
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																				
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<2	<2	<10	79			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<2	<2	<10	79			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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	0	0	0	0	0	0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<2	<2	<10	79			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<5	<2	<10	61	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5
RPD		0	0	0	26			0	0	0	0	0	0	0	0		0		0	0	0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																				
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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

								BTEX						TRH							
		Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	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
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.1	0.1	0.1	0.1	0.2	0.3	20	20	50	50	100	100	50	20
Location Code	**Field ID**																				
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																				
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																				
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20

								BTEX						TRH							
		Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	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
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																				
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																				
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																				
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																				
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																				
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																				
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.5	<0.5	<0.5	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20
RPD		0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																				
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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

		TPH				Organochlorine Pesticides															
		C10-C14	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	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Chlordane (cis)	Chlordane (trans)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		20	50	50	50	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.03	0.03
Location Code	**Field ID**																				
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																				
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																				
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03

		TPH				Organochlorine Pesticides															
		C10-C14	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	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Chlordane (cis)	Chlordane (trans)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																				
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																				
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																				
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																				
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																				
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																				
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1		
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																				
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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

Location Code	Field ID	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC	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	Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-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	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	0.5	0.1	0.03	0.5	0.5	1	1	0.5	1	1	0.05	5
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																				
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																				
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS																				
RPD																					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																				
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5

		Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC	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	Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																				
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																				
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS																				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																				
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																				
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																				
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																				
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																				
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																				
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																				
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5
RPD		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																				
RPD																					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																				
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																				
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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

		Phenols																			
		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	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)	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg
EQL		10	0.03	0.5	20	1	20	0.5	0.2	1	5	0.4	5	20	0.5	1	20	0.00001	0.005	0.00001	0.005
Location Code	**Field ID**																				
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
RPD		0		0	0			0	0	0	0	0	0	0	0	0	0		0		0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
RPD					0			0	0	0	0	0	0	0	0				0		0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																	<0.00001		<0.00001	
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																	<0.00001		<0.00001	
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																	<0.00001		<0.00001	
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS																	<0.00005		<0.00005	
RPD																		0		0	
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
RPD			0		0	0	0	0	0	0	0	0	0	0	0			0	0	0	0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
RPD					0			0	0	0	0	0	0	0	0				0		0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
RPD			0		0	0	0	0	0	0	0	0	0	0	0			0	0	0	0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
RPD					0			0	0	0	0	0	0	0	0				0		0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																	<0.00005		<0.00005	
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS																	<0.00005		<0.00005	
RPD																		0		0	
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																	<0.00005		<0.00005	
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
RPD			0		0	0	0	0	0	0	0	0	0	0	0			0	0	0	0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
RPD					0			0	0	0	0	0	0	0	0				0		0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
RPD			0		0	0	0	0	0	0	0	0	0	0	0			0	0	0	0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
RPD					0			0	0	0	0	0	0	0	0				0		0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
RPD		0		0	0			0	0	0	0	0	0	0	0	0	0		0		0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050

		Phenols																			
		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	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)	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg
RPD					0			0	0	0	0	0	0	0	0				0		0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																	<0.00001		<0.00001	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																	<0.00001		<0.00001	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																	<0.00001		<0.00001	
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																	<0.00005		<0.00005	
RPD																		0		0	
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																	<0.00005		<0.00005	
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS																	<0.00005		<0.00005	
RPD																		0		0	
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																	<0.00005		<0.00005	
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																	<0.00005		<0.00005	
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																	<0.00005		<0.00005	
RPD																		0		0	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																	<0.00005		<0.00005	
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																	<0.00005		<0.00005	
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																	<0.00005		<0.00005	
RPD																		0		0	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																	<0.00005		<0.00005	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
RPD		0		0	0			0	0	0	0	0	0	0	0	0	0		0		0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050
RPD					0			0	0	0	0	0	0	0	0				0		0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																	<0.00001		<0.00001	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																	<0.00001		<0.00001	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																	<0.00001		<0.00001	
RPD																		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																	<0.00001		<0.00001	
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																	<0.00005		<0.00005	
RPD																		0		0	

*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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

		6:2 Fluorotelomer sulfonic acid (6:2 FTS)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NEtFOSA)		N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)		N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)		Perfluorobutanoic acid (PFBA)		Perfluorobutane sulfonic acid (PFBS)	
		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	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
EQL		0.00005	0.01	0.00001	0.005	0.00005	0.005	0.00005	0.01	0.00005	0.005	0.00005	0.005	0.00005	0.01	0.00005	0.005	0.00005	0.005	0.00001	0.005
Location Code	**Field ID**																				
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
B06.03	**SX_OB_20220604_19_52_SS_Duplicate_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
RPD			0		0		0		0		0		0		0		0		0		0
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
B06.03	**SX_OB_20220604_19_52_SS_Triplicate_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD			0		0		0		0		0		0		0		0		0		0
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
B06.03	**SX_OB_20220604_19_52_SS_Duplicate_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
B06.03	**SX_OB_20220604_19_52_SS_Duplicate_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
B06.03	**SX_OB_20220604_19_52_SS_Triplicate_ALS**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
B06.03	**SX_OB_20220605_08_12_SS_Duplicate_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
B06.03	**SX_OB_20220605_08_13_SS_Triplicate_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
RPD			0		0		0		0		0		0		0		0		0		0
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
B06.03	**SX_OB_20220605_08_13_SS_Triplicate_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
B06.03	**SX_OB_20220604_08_18_SS_Duplicate_ALS**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
B06.03	**SX_OB_20220604_08_19_SS_Triplicate_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
RPD			0		0		0		0		0		0		0		0		0		0
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
B06.03	**SX_OB_20220604_08_19_SS_Triplicate_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
B06.03	**SX_OB_20220604_08_18_SS_Duplicate_ALS**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
B06.03	**SX_OB_20220604_08_19_SS_Triplicate_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
C07.03	**SX_OB_20220605_12_11_SS_Duplicate_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
RPD			0		0		0		0		0		0		0		0		0		0
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
C07.03	**SX_OB_20220605_19_53_SS_Duplicate_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
RPD			0		0		0		0		0		0		0		0		0		0
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	**SX_OB_20220605_16_00_SS_Primary_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
C07.03	**SX_OB_20220605_16_02_SS_Duplicate_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
RPD			0		0		0		0		0		0		0		0		0		0
C07.03	**SX_OB_20220605_16_00_SS_Primary_EUF**		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
C07.03	**SX_OB_20220605_16_03_SS_Triplicate_ALS**	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050

		6:2 Fluorotelomer sulfonic acid (6:2 FTS)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NEtFOSA)		N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)		N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)		Perfluorobutanoic acid (PFBA)		Perfluorobutane sulfonic acid (PFBS)	
		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	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
RPD			0		0		0		0		0		0		0		0		0		0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
RPD			0		0		0		0		0		0		0		0		0		0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050
RPD			0		0		0		0		0		0		0		0		0		0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002	
RPD		0		0		0		0		0		0		0		0		0		0	

*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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

		PFOS/PFOA																			
		Perfluorodecanoic acid (PFDA)		Perfluorododecanoic acid (PFDoDA)		Perfluorodecanesulfonic acid (PFDS)		Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane sulfonic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)		Perfluorononanoic acid (PFNA)		Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid (PFOA)		Perfluorooctane sulfonamide (PFOSA)	
		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	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	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00005	0.005
Location Code	**Field ID**																				
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
B06.03	**SX_OB_20220604_19_52_SS_Duplicate_EUF**		<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
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
B06.03	**SX_OB_20220604_19_52_SS_Triplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
RPD			0		0		0		0		0				0				0		0
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
B06.03	**SX_OB_20220604_19_52_SS_Duplicate_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
B06.03	**SX_OB_20220604_19_52_SS_Duplicate_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
B06.03	**SX_OB_20220604_19_52_SS_Triplicate_ALS**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
B06.03	**SX_OB_20220605_08_12_SS_Duplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
B06.03	**SX_OB_20220605_08_13_SS_Triplicate_EUF**		<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
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
B06.03	**SX_OB_20220605_08_13_SS_Triplicate_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
B06.03	**SX_OB_20220604_08_18_SS_Duplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
B06.03	**SX_OB_20220604_08_19_SS_Triplicate_EUF**		<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
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
B06.03	**SX_OB_20220604_08_19_SS_Triplicate_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
B06.03	**SX_OB_20220604_08_18_SS_Duplicate_ALS**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
B06.03	**SX_OB_20220604_08_19_SS_Triplicate_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
C07.03	**SX_OB_20220605_12_11_SS_Duplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**		<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
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
C07.03	**SX_OB_20220605_19_53_SS_Duplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**		<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
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	**SX_OB_20220605_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
C07.03	**SX_OB_20220605_16_02_SS_Duplicate_EUF**		<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
C07.03	**SX_OB_20220605_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
C07.03	**SX_OB_20220605_16_03_SS_Triplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050

		PFOS/PFOA																			
		Perfluorodecanoic acid (PFDA)		Perfluorododecanoic acid (PFDoDA)		Perfluorodecanesulfonic acid (PFDS)		Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane sulfonic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)		Perfluorononanoic acid (PFNA)		Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid (PFOA)		Perfluorooctane sulfonamide (PFOSA)	
		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	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
RPD			0		0		0		0		0		0		0				0		0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF		<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
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050
RPD			0		0		0		0		0		0		0				0		0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0		0		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005	
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005	
RPD		0		0		0		0		0		0		0				0		0	

*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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		Perfluoropropanesulfonic acid (PFPrS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid (PFTrDA)		Perfluoroundecanoic acid (PFLUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*	
		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	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	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005
Location Code	**Field ID**																				
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
B06.03	**SX_OB_20220604_19_52_SS_Duplicate_EUF**		<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
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
B06.03	**SX_OB_20220604_19_52_SS_Triplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<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		
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
B06.03	**SX_OB_20220604_19_52_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	
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
B06.03	**SX_OB_20220604_19_52_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	
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
B06.03	**SX_OB_20220604_19_52_SS_Triplicate_ALS**	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
RPD		0		0				0		0		0		0		0		0			
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
B06.03	**SX_OB_20220605_08_12_SS_Duplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<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	0	0	0	0	0	0	0		
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
B06.03	**SX_OB_20220605_08_13_SS_Triplicate_EUF**		<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		
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
B06.03	**SX_OB_20220605_08_13_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		0		0	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
B06.03	**SX_OB_20220604_08_18_SS_Duplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<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	0	0	0	0	0	0	0		
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
B06.03	**SX_OB_20220604_08_19_SS_Triplicate_EUF**		<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		
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
B06.03	**SX_OB_20220604_08_19_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		0		0	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
B06.03	**SX_OB_20220604_08_18_SS_Duplicate_ALS**	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
RPD		0		0				0		0		0		0		0		0			
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
B06.03	**SX_OB_20220604_08_19_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			
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
C07.03	**SX_OB_20220605_12_11_SS_Duplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<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	0	0	0	0	0	0	0		
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**		<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		
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
C07.03	**SX_OB_20220605_12_12_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			
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
C07.03	**SX_OB_20220605_19_53_SS_Duplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<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	0	0	0	0	0	0	0		
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**		<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		
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		
C07.03	**SX_OB_20220605_19_54_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			
C07.03	**SX_OB_20220605_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
C07.03	**SX_OB_20220605_16_02_SS_Duplicate_EUF**		<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
C07.03	**SX_OB_20220605_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
C07.03	**SX_OB_20220605_16_03_SS_Triplicate_ALS**	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050		

		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		Perfluoropropanesulfonic acid (PFPrS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid (PFTrDA)		Perfluoroundecanoic acid (PFLUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*	
		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	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
RPD			0		0				0		0		0		0		0		0		
C07.03	SX_OB_20220605_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	
C07.03	SX_OB_20220605_16_02_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	
C07.03	SX_OB_20220605_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	
C07.03	SX_OB_20220605_16_02_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	
C07.03	SX_OB_20220605_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	
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
RPD		0		0				0		0		0		0		0		0			
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
RPD		0		0				0		0		0		0		0		0			
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
B06.03	SX_OB_20220605_08_13_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			
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
RPD		0		0				0		0		0		0		0		0			
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
C07.03	SX_OB_20220605_12_12_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			
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
RPD		0		0				0		0		0		0		0		0			
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
C07.03	SX_OB_20220605_19_54_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			
C07.03	SX_OB_20220605_19_54_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		0		0	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF		<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
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.00002	<0.0050	<0.00002	<0.0050			<0.00005	<0.0050	<0.00002	<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		
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C07.03	SX_OB_20220606_04_23_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	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C07.03	SX_OB_20220606_04_23_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	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.00002		<0.00002				<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001			
RPD		0		0				0		0		0		0		0		0			

*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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

																					Chlorinated Hydrocarbons
		Sum of enHealth PFAS (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	1,1,1-trichloroethane	Chloroform	1,1,2,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane
		mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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		0.00001	0.005	0.0001	0.05	0.5	0.5	0.5	0.5	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**																				
B06.03	**SX_OB_20220604_19_51_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B06.03	**SX_OB_20220604_19_52_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	<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	0	0	0	0	0	0
B06.03	**SX_OB_20220604_19_51_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B06.03	**SX_OB_20220604_19_52_SS_Triplicate_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
RPD					0		0		0				0		0	0	0				0
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00001		<0.0001																	
B06.03	**SX_OB_20220604_19_52_SS_Duplicate_EUF**	<0.00001		<0.0001																	
RPD		0		0																	
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00001		<0.0001																	
B06.03	**SX_OB_20220604_19_52_SS_Duplicate_EUF**	<0.00001		<0.0001																	
RPD		0		0																	
B06.03	**SX_OB_20220604_19_51_SS_Primary_EUF**	<0.00001		<0.0001																	
B06.03	**SX_OB_20220604_19_52_SS_Triplicate_ALS**			<0.00010																	
RPD				0																	
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
B06.03	**SX_OB_20220605_08_12_SS_Duplicate_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
RPD				0	0		0		0				0		0	0	0				0
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
B06.03	**SX_OB_20220605_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD					0		0		0				0		0	0	0				0
B06.03	**SX_OB_20220605_08_10_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
B06.03	**SX_OB_20220605_08_13_SS_Triplicate_EUF**	<0.00001		<0.0001																	
RPD				0																	
B06.03	**SX_OB_20220605_08_13_SS_Triplicate_EUF**	<0.00001		<0.0001																	
RPD				0																	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
B06.03	**SX_OB_20220604_08_18_SS_Duplicate_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
RPD				0	0		0		0				0		0	0	0				0
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
B06.03	**SX_OB_20220604_08_19_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD					0		0		0				0		0	0	0				0
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
B06.03	**SX_OB_20220604_08_19_SS_Triplicate_EUF**	<0.00001		<0.0001																	
RPD				0																	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**			<0.00010																	
B06.03	**SX_OB_20220604_08_18_SS_Duplicate_ALS**			<0.00010																	
RPD				0																	
B06.03	**SX_OB_20220604_08_17_SS_Primary_ALS**			<0.00010																	
B06.03	**SX_OB_20220604_08_19_SS_Triplicate_EUF**	<0.00001		<0.0001																	
RPD				0																	
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
C07.03	**SX_OB_20220605_12_11_SS_Duplicate_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
RPD				0	0		0		0				0		0	0	0				0
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
C07.03	**SX_OB_20220605_12_12_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD					0		0		0				0		0	0	0				0
C07.03	**SX_OB_20220605_12_09_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
C07.03	**SX_OB_20220605_12_12_SS_Triplicate_EUF**	<0.00001		<0.0001																	
RPD				0																	
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
C07.03	**SX_OB_20220605_19_53_SS_Duplicate_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
RPD				0	0		0		0				0		0	0	0				0
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
C07.03	**SX_OB_20220605_19_54_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD					0		0		0				0		0	0	0				0
C07.03	**SX_OB_20220605_19_53_SS_Primary_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
C07.03	**SX_OB_20220605_19_54_SS_Triplicate_EUF**	<0.00001		<0.0001																	
RPD				0																	
C07.03	**SX_OB_20220605_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220605_16_02_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	<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	0	0	0	0	0	0
C07.03	**SX_OB_20220605_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	**SX_OB_20220605_16_03_SS_Triplicate_ALS**			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5

																						Chlorinated Hydrocarbons
		Sum of enHealth PFAS (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	1,1,1-trichloroethane	Chloroform	1,1,2,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane
		mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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					0		0		0				0		0	0	0				0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00001		<0.0001																	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.00001		<0.0001																	
RPD		0		0																	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00001		<0.0001																	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.00001		<0.0001																	
RPD		0		0																	
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.00001		<0.0001																	
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS			<0.00010																	
RPD				0																	
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS			<0.00010																	
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS			<0.00010																	
RPD				0																	
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS			<0.00010																	
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	<0.00001		<0.0001																	
RPD				0																	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS			<0.00010																	
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS			<0.00010																	
RPD				0																	
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS			<0.00010																	
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.00001		<0.0001																	
RPD				0																	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS			<0.00010																	
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS			<0.00010																	
RPD				0																	
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS			<0.00010																	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.00001		<0.0001																	
RPD				0																	
C07.03	SX_OB_20220606_04_22_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_23_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	<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	0	0	0	0	0	0	0
C07.03	SX_OB_20220606_04_22_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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS			<0.00010	<0.0500		<0.50		<0.50				<0.50		<0.50	<0.50	<0.50				<0.5
RPD					0		0		0				0		0	0	0				0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.0001																	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.00001		<0.0001																	
RPD		0		0																	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.0001																	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.00001		<0.0001																	
RPD		0		0																	
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.00001		<0.0001																	
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS			<0.00010																	
RPD				0																	

*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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

																NA					
		Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVic	Trichloroethene	Chlorinated hydrocarbons EPAVic	cis-1,2-dichloroethene	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	Arochlor 1232	Arochlor 1242	Arochlor 1248
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%	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	0.5	0.5	0.05		1	0.1	0.1	0.1
Location Code	**Field ID**																				
B06.03	SX_OB_20220604_19_51_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
B06.03	SX_OB_20220604_19_52_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
B06.03	SX_OB_20220604_19_51_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	32.5			
RPD		0	0	0	0	0	0		0		0			0	0	0					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF															<0.05					
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF															<0.05					
RPD																0					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF															<0.05					
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF															<0.05					
RPD																0					
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF															<0.05					
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS																<0.05				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.2			
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	32.2			
RPD		0	0	0	0	0	0		0		0			0	0	0	0	10			
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.2			
B06.03	SX_OB_20220605_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0		0		0			0	0	0					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.2			
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF															<0.05					
RPD																0					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.8			
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	34.6			
RPD		0	0	0	0	0	0		0		0			0	0	0	0	8			
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.8			
B06.03	SX_OB_20220604_08_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0		0		0			0	0	0					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	31.8			
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF															<0.05					
RPD																0					
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																<0.05				
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS																<0.05				
RPD																	0				
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																<0.05				
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF															<0.05					
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.4			
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.4			
RPD		0	0	0	0	0	0		0		0			0	0	0	0	3			
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.4			
C07.03	SX_OB_20220605_12_12_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0		0		0			0	0	0					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.4			
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF															<0.05					
RPD																0					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.1			
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	30.6			
RPD		0	0	0	0	0	0		0		0			0	0	0	0	5			
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.1			
C07.03	SX_OB_20220605_19_54_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0		0		0			0	0	0					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	29.1			
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF															<0.05					
RPD																0					
C07.03	SX_OB_20220605_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
C07.03	SX_OB_20220605_16_02_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
C07.03	SX_OB_20220605_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	28.3			

																NA					
		Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVic	Trichloroethene	Chlorinated hydrocarbons EPAVic	cis-1,2-dichloroethene	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	Arochlor 1232	Arochlor 1242	Arochlor 1248
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%	mg/kg	mg/kg	mg/kg
RPD		0	0	0	0	0	0		0		0			0	0	0					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF															<0.05					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF															<0.05					
RPD																0					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF															<0.05					
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF															<0.05					
RPD																0					
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF															<0.05					
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																<0.05				
RPD																					
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																<0.05				
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS																<0.05				
RPD																	0				
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																<0.05				
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF															<0.05					
RPD																					
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																<0.05				
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																<0.05				
RPD																	0				
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																<0.05				
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF															<0.05					
RPD																					
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																<0.05				
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																<0.05				
RPD																	0				
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																<0.05				
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF															<0.05					
RPD																					
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF															<0.05					
RPD																					
C07.03	SX_OB_20220606_04_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
C07.03	SX_OB_20220606_04_23_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0
C07.03	SX_OB_20220606_04_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	<0.5	<0.5	<10			<0.1	<0.1	<0.1
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.05	24.4			
RPD		0	0	0	0	0	0		0		0			0	0	0					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF															<0.05					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF															<0.05					
RPD																0					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF															<0.05					
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF															<0.05					
RPD																0					
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF															<0.05					
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																<0.05				
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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

		PCBs					Inorganics								Halogenated Benzenes						
		Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid	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	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	100	1	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Location Code	**Field ID**																				
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					6.1	<100	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					7.2	470	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0					17	**130**	3	0	0	0	0	0	0	0	0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					6.1	<100	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS					<0.1	1.5	5.1	7.7	5.0		170		<5	<0.50	<0.50		<0.50			<0.50
RPD						0						52		0	0	0		0			0
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF							4.9		5.0											
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF							5.8		5.0											
RPD								17		0											
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF							7.5		6.7											
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF							7.6		6.7											
RPD								1		0											
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF							7.5		6.7											
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS							8.8													
RPD								16													
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS					<0.1	1.6	5.1	7.5	5.0		170		<5	<0.50	<0.50		<0.50			<0.50
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS					<0.1	1.6	5.1	8.1	5.0		160		<5	<0.50	<0.50		<0.50			<0.50
RPD						0	0	0	8	0		6		0	0	0		0			0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS					<0.1	1.6	5.1	7.5	5.0		170		<5	<0.50	<0.50		<0.50			<0.50
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					7.0	190	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD						0						11		0	0	0		0			0
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS					<0.1	1.6	5.1	7.5	5.0		170		<5	<0.50	<0.50		<0.50			<0.50
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF							5.9		5.0											
RPD								15		0											
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS					<0.1	1.6	5.1	6.7	5.0		190		<5	<0.50	<0.50		<0.50			<0.50
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS					<0.1	1.4	5.1	7.4	5.0		200		<5	<0.50	<0.50		<0.50			<0.50
RPD						0	13	0	10	0		5		0	0	0		0			0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS					<0.1	1.6	5.1	6.7	5.0		190		<5	<0.50	<0.50		<0.50			<0.50
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					7.9	<100	30	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD						0						62		0	0	0		0			0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS					<0.1	1.6	5.1	6.7	5.0		190		<5	<0.50	<0.50		<0.50			<0.50
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF							4.9		5.0											
RPD								4		0											
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS							5.7													
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS							8.7													
RPD								**42**													
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS							5.7													
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF							7.3		6.7											
RPD								25													
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS					<0.1	1.4	5.1	7.9	5.0		190		<5	<0.50	<0.50		<0.50			<0.50
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS					<0.1	1.5	5.1	8.1	5.0		190		<5	<0.50	<0.50		<0.50			<0.50
RPD						0	7	0	2	0		0		0	0	0		0			0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS					<0.1	1.4	5.1	7.9	5.0		190		<5	<0.50	<0.50		<0.50			<0.50
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					6.3	<100	24	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD						0						62		0	0	0		0			0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS					<0.1	1.4	5.1	7.9	5.0		190		<5	<0.50	<0.50		<0.50			<0.50
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF							5.9		5.0											
RPD								15		0											
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS					<0.1	1.5	5.1	8.2	5.0		180		<5	<0.50	<0.50		<0.50			<0.50
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS					<0.1	1.5	5.1	7.9	5.0		200		<5	<0.50	<0.50		<0.50			<0.50
RPD						0	0	0	4	0		11		0	0	0		0			0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS					<0.1	1.5	5.1	8.2	5.0		180		<5	<0.50	<0.50		<0.50			<0.50
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					6.6	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD						0						57		0	0	0		0			0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS					<0.1	1.5	5.1	8.2	5.0		180		<5	<0.50	<0.50		<0.50			<0.50
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF							5.3		5.0											
RPD								4		0											
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					7.5	<100	28	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					7.0	<100	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0					7	0	4	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					7.5	<100	28	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS					<0.1	1.5	5.1	8.6	5.0		200		<5	<0.50	<0.50		<0.50			<0.50

		PCBs					Inorganics								Halogenated Benzenes						
		Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid	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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD						0						67		0	0	0		0			0
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF							6.0		5.0											
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF							5.3		5.0											
RPD								12		0											
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF							8.1		6.7											
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF							8.3		6.7											
RPD								2		0											
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF							8.1		6.7											
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS							9.4													
RPD								15													
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS							8.8													
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS							8.7													
RPD								1													
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS							8.8													
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF							7.8		6.7											
RPD								12													
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS							6.5													
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS							8.8													
RPD								30													
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS							6.5													
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF							7.8		6.7											
RPD								18													
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS							8.7													
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS							9.1													
RPD								4													
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS							8.7													
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF							8.2		6.7											
RPD								6													
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF							8.2		6.7											
RPD								6													
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					7.0	<100	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					7.1	<100	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD		0	0	0	0	0					1	0	7	0	0	0	0	0	0	0	0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					7.0	<100	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS					<0.1	1.5	5.1	8.4	5.0		200		<5	<0.50	<0.50		<0.50			<0.50
RPD						0						67		0	0	0		0			0
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF							5.3		5.0											
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF							5.3		5.0											
RPD								0		0											
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF							8.5		6.7											
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF							8.5		6.7											
RPD								0		0											
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF							8.5		6.7											
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS							9.7													
RPD								13													

**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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

		Halogenated Hydrocarbons					MAH						Solvents					SPOCAS
		Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocylic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
		mg/kg	mg/kg	mg/kg	mg/kg	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	0.5	0.5	0.5	0.5	0.1
Location Code	**Field ID**																	
B06.03	SX_OB_20220604_19_51_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	<0.5	<0.5	<0.5	
B06.03	SX_OB_20220604_19_52_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	<0.5	<0.5	<0.5	
RPD		0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
B06.03	SX_OB_20220604_19_51_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	<0.5	<0.5	<0.5	
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS							<0.5		<0.5								7.5
RPD										0								
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																	
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																	
RPD																		
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																	
B06.03	SX_OB_20220604_19_52_SS_Duplicate_EUF																	
RPD																		
B06.03	SX_OB_20220604_19_51_SS_Primary_EUF																	
B06.03	SX_OB_20220604_19_52_SS_Triplicate_ALS																	
RPD																		
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS							<0.5		<0.5								7.6
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS							<0.5		<0.5								7.5
RPD								0		0								1
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS							<0.5		<0.5								7.6
B06.03	SX_OB_20220605_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	<0.5	<0.5	<0.5	
RPD										0								
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS							<0.5		<0.5								7.6
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																	
RPD																		
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS							<0.5		<0.5								7.5
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS							<0.5		<0.5								7.5
RPD								0		0								0
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS							<0.5		<0.5								7.5
B06.03	SX_OB_20220604_08_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	<0.5	<0.5	<0.5	
RPD										0								
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS							<0.5		<0.5								7.5
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																	
RPD																		
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																	
B06.03	SX_OB_20220604_08_18_SS_Duplicate_ALS																	
RPD																		
B06.03	SX_OB_20220604_08_17_SS_Primary_ALS																	
B06.03	SX_OB_20220604_08_19_SS_Triplicate_EUF																	
RPD																		
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS							<0.5		<0.5								7.7
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS							<0.5		<0.5								7.7
RPD								0		0								0
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS							<0.5		<0.5								7.7
C07.03	SX_OB_20220605_12_12_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	<0.5	<0.5	<0.5	
RPD										0								
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS							<0.5		<0.5								7.7
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																	
RPD																		
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS							<0.5		<0.5								7.8
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS							<0.5		<0.5								7.8
RPD								0		0								0
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS							<0.5		<0.5								7.8
C07.03	SX_OB_20220605_19_54_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	<0.5	<0.5	<0.5	
RPD										0								
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS							<0.5		<0.5								7.8
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																	
RPD																		
C07.03	SX_OB_20220605_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	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220605_16_02_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	<0.5	<0.5	<0.5	
RPD		0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
C07.03	SX_OB_20220605_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	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS							<0.5		<0.5								7.9

		Halogenated Hydrocarbons					MAH						Solvents					SPOCAS
		Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocylic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
		mg/kg	mg/kg	mg/kg	mg/kg	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										0								
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																	
RPD																		
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																	
C07.03	SX_OB_20220605_16_02_SS_Duplicate_EUF																	
RPD																		
C07.03	SX_OB_20220605_16_00_SS_Primary_EUF																	
C07.03	SX_OB_20220605_16_03_SS_Triplicate_ALS																	
RPD																		
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																	
B06.03	SX_OB_20220605_08_12_SS_Duplicate_ALS																	
RPD																		
B06.03	SX_OB_20220605_08_10_SS_Primary_ALS																	
B06.03	SX_OB_20220605_08_13_SS_Triplicate_EUF																	
RPD																		
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																	
C07.03	SX_OB_20220605_12_11_SS_Duplicate_ALS																	
RPD																		
C07.03	SX_OB_20220605_12_09_SS_Primary_ALS																	
C07.03	SX_OB_20220605_12_12_SS_Triplicate_EUF																	
RPD																		
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																	
C07.03	SX_OB_20220605_19_53_SS_Duplicate_ALS																	
RPD																		
C07.03	SX_OB_20220605_19_53_SS_Primary_ALS																	
C07.03	SX_OB_20220605_19_54_SS_Triplicate_EUF																	
RPD																		
C07.03	SX_OB_20220606_04_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	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220606_04_23_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	<0.5	<0.5	<0.5	
RPD		0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
C07.03	SX_OB_20220606_04_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	<0.5	<0.5	<0.5	
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS							<0.5		<0.5								7.9
RPD										0								
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																	
RPD																		
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																	
C07.03	SX_OB_20220606_04_23_SS_Duplicate_EUF																	
RPD																		
C07.03	SX_OB_20220606_04_22_SS_Primary_EUF																	
C07.03	SX_OB_20220606_04_24_SS_Triplicate_ALS																	
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 ra

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. An

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	**C07.0320220615151835_01**	**This report is attached as part of a WCR form referencing WGT-302-000-WKN-CJH-105-SWI-0001_01**

ATTACHMENT B: 95% UCL AVE CALCULATIONS

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.115/06/2022 4:14:17 PM
From File	WorkSheet_d.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Arsenic

General Statistics

Total Number of Observations	18	Number of Distinct Observations	16
		Number of Missing Observations	0
Minimum	36	Mean	55.5
Maximum	170	Median	47
SD	30.76	Std. Error of Mean	7.25
Coefficient of Variation	0.554	Skewness	3.388

Normal GOF Test

Shapiro Wilk Test Statistic	0.56	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.897	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.301	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.202	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	68.11	95% Adjusted-CLT UCL (Chen-1995)	73.61
		95% Modified-t UCL (Johnson-1978)	69.08

Gamma GOF Test

A-D Test Statistic	1.788	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.742	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.252	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.204	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	6.253	k star (bias corrected MLE)	5.248
Theta hat (MLE)	8.876	Theta star (bias corrected MLE)	10.58
nu hat (MLE)	225.1	nu star (bias corrected)	188.9
MLE Mean (bias corrected)	55.5	MLE Sd (bias corrected)	24.23
		Approximate Chi Square Value (0.05)	158.1
Adjusted Level of Significance	0.0357	Adjusted Chi Square Value	155.4

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	66.31	95% Adjusted Gamma UCL (use when n<50)	67.46

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.764	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk Critical Value	0.897	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.218	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.202	Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

57												
58	**Lognormal Statistics**											
59					Minimum of Logged Data	3.584				Mean of logged Data		3.934
60					Maximum of Logged Data	5.136				SD of logged Data		0.366
61												
62	**Assuming Lognormal Distribution**											
63					95% H-UCL	64.7				90% Chebyshev (MVUE) UCL		68.79
64					95% Chebyshev (MVUE) UCL	75.29				97.5% Chebyshev (MVUE) UCL		84.3
65					99% Chebyshev (MVUE) UCL	102						
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	67.43				95% Jackknife UCL		68.11
72					95% Standard Bootstrap UCL	67.16				95% Bootstrap-t UCL		93.49
73					95% Hall's Bootstrap UCL	117.8				95% Percentile Bootstrap UCL		67.94
74					95% BCA Bootstrap UCL	75.39						
75					90% Chebyshev(Mean, Sd) UCL	77.25				95% Chebyshev(Mean, Sd) UCL		87.1
76					97.5% Chebyshev(Mean, Sd) UCL	100.8				99% Chebyshev(Mean, Sd) UCL		127.6
77												
78	**Suggested UCL to Use**											
79					95% Student's-t UCL	68.11				or 95% Modified-t UCL		69.08
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	**Nickel**											
88												
89	**General Statistics**											
90					Total Number of Observations	18				Number of Distinct Observations		11
91										Number of Missing Observations		0
92					Minimum	93				Mean		114.4
93					Maximum	160				Median		114
94					SD	17.41				Std. Error of Mean		4.103
95					Coefficient of Variation	0.152				Skewness		1.037
96												
97	**Normal GOF Test**											
98					Shapiro Wilk Test Statistic	0.91				**Shapiro Wilk GOF Test**		
99					5% Shapiro Wilk Critical Value	0.897				Data appear Normal at 5% Significance Level		
100					Lilliefors Test Statistic	0.153				**Lilliefors GOF Test**		
101					5% Lilliefors Critical Value	0.202				Data appear Normal at 5% Significance Level		
102	**Data appear 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	121.6				95% Adjusted-CLT UCL (Chen-1995)		122.3
107										95% Modified-t UCL (Johnson-1978)		121.7
108												
109	**Gamma GOF Test**											
110					A-D Test Statistic	0.459				**Anderson-Darling Gamma GOF Test**		
111					5% A-D Critical Value	0.738				Detected data appear Gamma Distributed at 5% Significance Level		
112					K-S Test Statistic	0.142				**Kolmogorov-Smirnov Gamma GOF Test**		
113					5% K-S Critical Value	0.203				Detected data appear Gamma Distributed at 5% Significance Level		
114	**Detected data appear Gamma Distributed at 5% Significance Level**											

Gamma Statistics		
k hat (MLE)	48.88	k star (bias corrected MLE) 40.77
Theta hat (MLE)	2.341	Theta star (bias corrected MLE) 2.807
nu hat (MLE)	1760	nu star (bias corrected) 1468
MLE Mean (bias corrected)	114.4	MLE Sd (bias corrected) 17.92
		Approximate Chi Square Value (0.05) 1380
Adjusted Level of Significance	0.0357	Adjusted Chi Square Value 1372
Assuming Gamma Distribution		
95% Approximate Gamma UCL (use when n>=50))	121.7	95% Adjusted Gamma UCL (use when n<50) 122.5
Lognormal GOF Test		
Shapiro Wilk Test Statistic	0.938	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk Critical Value	0.897	Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.138	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.202	Data appear Lognormal at 5% Significance Level
Data appear Lognormal at 5% Significance Level		
Lognormal Statistics		
Minimum of Logged Data	4.533	Mean of logged Data 4.73
Maximum of Logged Data	5.075	SD of logged Data 0.145
Assuming Lognormal Distribution		
95% H-UCL	121.8	90% Chebyshev (MVUE) UCL 126.2
95% Chebyshev (MVUE) UCL	131.6	97.5% Chebyshev (MVUE) UCL 139
99% Chebyshev (MVUE) UCL	153.5	
Nonparametric Distribution Free UCL Statistics		
Data appear to follow a Discernible Distribution at 5% Significance Level		
Nonparametric Distribution Free UCLs		
95% CLT UCL	121.2	95% Jackknife UCL 121.6
95% Standard Bootstrap UCL	121	95% Bootstrap-t UCL 122.8
95% Hall's Bootstrap UCL	123.5	95% Percentile Bootstrap UCL 121.4
95% BCA Bootstrap UCL	122.2	
90% Chebyshev(Mean, Sd) UCL	126.8	95% Chebyshev(Mean, Sd) UCL 132.3
97.5% Chebyshev(Mean, Sd) UCL	140.1	99% Chebyshev(Mean, Sd) UCL 155.3
Suggested UCL to Use		
95% Student's-t UCL	121.6	

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	**C07.0320220615151835_01**	**This report is attached as part of a WCR form referencing WGT-302-000-WKN-CJH-105-SWI-0001_01**

ATTACHMENT C: LABORATORY CERTIFICATES

CHAIN OF CUSTODY RECORD

☐ Sydney Laboratory — Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066 — 02 9900 8400 — EnviroSampleNSW@eurofins.com

☐ Brisbane Laboratory — Unit 1 21 Smallwood Place Murarrie QLD 4172 — 07 3902 4600 — EnviroSampleQLD@eurofins.com

☐ Perth Laboratory — Unit 2 91 Leach Highway Kewdale WA 6105 — 08 9251 9600 — EnviroSampleWA@eurofins.com

☑ Melbourne Laboratory — 6 Monterey Road Dandenong South VIC 3175 — 03 8564 5000 — EnviroSampleVic@eurofins.com

Company	AGON Environmental - Tunnel Spoil Testing
Address	Unit H76, 63-85 Turner St, Port Melbourne VIC 3207
Contact Name	Craig Trimbur David Lawson
Phone №	+61 400 826 907 (Craig) +61 490 411 004 (David)
Special Directions	Please provide an interim lab report if finalised report has not been provided by 14 days from sample receipt. Please provide eSRN along with oter sample recipt documentation.
Purchase Order	
Quote ID №	Agon WGTP TST
Project №	JC0927
Project Name	WGTP-Tunnel Ref: 20220606044929-Eurofin-8
Project Manager	Craig Trimbur
EDD Format	Esdat
Sampler(s)	WOH - Agon, HK and AV - EP Risk, ES - EP Risk
Handed over by	Emma. S - EP Risk
Email for Invoice	finance@agonenviro.com.au LabReports.TST@agonenviro.com.au
Email for Results	LabReports.TST@agonenviro.com.au agonenvironmental@esdat.com.au motherhublabresults1@wgtp.com.au Amrit.Kaur@agile-analytics.com.au

Required Turnaround Time (TAT) — ♦Surcharge will apply
☐ Overnight (reporting by 9am)♦
☐ Same day♦ ☐ 1 day♦
☐ 2 days♦ ☐ 3 days♦
☑ 5 days (Standard)
☐ Other( )

№	Client Sample ID	Sampled Date/Time	Matrix	Spoil Sample Preparation	Suite WGTP-R1-TRH/ PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni, Pb, Hg, Ag, Sn, Mo, Se, Zn)/ Cr6+/ CN/ Total Fluoride/ pH	PFAS Extended Suite - 0.1 - 5ug/kg	ASLP PH 5 - PFAS 0.01-0.05 ug/l	ASLP Reagent - PFAS 0.01-0.05ug/l	500mL Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4964/ WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning
1	SX_OB_20220604_08_19_SS_Triplicate_EUF	4/06/2022, 08:19	S	X	X	X	X	X								1	
2	SX_OB_20220604_11_57_SS_Primary_EUF	4/06/2022, 11:57	S	X	X	X	X	X								1	
3	SX_OB_20220604_19_51_SS_Primary_EUF	4/06/2022, 19:51	S	X	X	X	X	X								1	
4	SX_OB_20220604_19_52_SS_Duplicate_EUF	4/06/2022, 19:52	S	X	X	X	X	X								1	
5	SX_OB_20220605_00_09_SS_Primary_EUF	05/06/2022 00:09	S	X	X	X	X	X								1	
6	SX_OB_20220605_03_56_SS_Primary_EUF	05/06/2022, 03:56	S	X	X	X	X	X								1	
7	SX_OB_20220605_08_13_SS_Triplicate_EUF	05/06/2022, 08:13	S	X	X	X	X	X								1	
8	SX_OB_20220605_08_18_SS_Primary_EUF	05/06/2022, 08:18	S	X	X	X	X	X								1	
9	SX_OB_20220605_12_12_SS_Triplicate_EUF	05/06/2022, 12:12	S	X	X	X	X	X								1	
10	SX_OB_20220605_12_17_SS_Primary_EUF	05/06/2022, 12:17	S	X	X	X	X	X								1	
11	SX_OB_20220605_16_00_SS_Primary_EUF	05/06/2022, 16:00	S	X	X	X	X	X								1	
12	SX_OB_20220605_16_02_SS_Duplicate_EUF	05/06/2022, 16:02	S	X	X	X	X	X								1	
13	SX_OB_20220605_16_30_SR_Rinsate_EUF	05/06/2022, 16:30	W			X											
14	SX_OB_20220605_16_32_SB_Blank_EUF	05/06/2022, 16:32	W			X											
15	SX_OB_20220605_19_54_SS_Triplicate_EUF	05/06/2022, 19:54	S	X	X	X	X	X								1	
16	SX_OB_20220605_20_00_SS_Primary_EUF	05/06/2022, 20:00	S	X	X	X	X	X								1	
17	SX_OB_20220605_23_51_SS_Primary_EUF	05/06/2022, 23:51	S	X	X	X	X	X								1	
18	SX_OB_20220606_04_22_SS_Primary_EUF	06/06/2022, 04:22	S	X	X	X	X	X								1	
19	SX_OB_20220606_04_23_SS_Duplicate_EUF	06/06/2022, 04:23	S	X	X	X	X	X								1	
	Total Counts			17	17	19	17	17								19	

Method of Shipment	☑ Courier (#) ☐ Hand Delivered ☐ Postal	Name	Emma. S	Signature	[signature]	Date	06/06/22
Time	09:15						
Laboratory Use Only — Received By	Jake	SYD | BNE | MEL | PER | ADL | NTL | DRW (MEL circled)	Signature: [signature]	Date	6/6	Time	12:15
Temperature	11.5						
Laboratory Use Only — Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date		Time	
Report №							

6/6/22 12:15PM
Yes / ⓞ
11.6
-0.1
11.5
Ty Courier

894859

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	Soil	M22-Jn0010571		X	X	X
2	SX_OB_20220604_11_57_SS_Primary_EUF	Jun 04, 2022	11:57AM	Soil	M22-Jn0010572		X	X	X
3	SX_OB_20220604_19_51_SS_Primary_EUF	Jun 04, 2022	7:51PM	Soil	M22-Jn0010573		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
4	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	Soil	M22-Jn0010574		X	X	X
5	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	Soil	M22-Jn0010575		X	X	X
6	SX_OB_20220605_03_56_SS_Primary_EUF	Jun 05, 2022	3:56AM	Soil	M22-Jn0010576		X	X	X
7	SX_OB_20220605_08_13_S	Jun 05, 2022	8:13AM	Soil	M22-Jn0010577		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Address: 3/224 Glen Osmond Road
Fullarton
SA 5063

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
	S_Triplicate_EUF								
8	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	Soil	M22-Jn0010578		X	X	X
9	SX_OB_20220605_12_12_SS_Triplicate_EUF	Jun 05, 2022	12:12PM	Soil	M22-Jn0010579		X	X	X
10	SX_OB_20220605_12_17_SS_Primary_EUF	Jun 05, 2022	12:17PM	Soil	M22-Jn0010580		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
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Sydney
179 Magowar Road
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
11	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	Soil	M22-Jn0010581		X	X	X
12	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	Soil	M22-Jn0010582		X	X	X
13	SX_OB_20220605_16_30_SR_Rinsate_EUF	Jun 05, 2022	4:30PM	Water	M22-Jn0010583			X	
14	SX_OB_20220605_16_32_S	Jun 05, 2022	4:32PM	Water	M22-Jn0010584			X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
	B_Blank_EUF								
15	SX_OB_20220605_19_54_SS_Triplicate_EUF	Jun 05, 2022	7:54PM	Soil	M22-Jn0010585		X	X	X
16	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	Soil	M22-Jn0010586		X	X	X
17	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	Soil	M22-Jn0010587		X	X	X
18	SX_OB_20220	Jun 06, 2022	4:22AM	Soil	M22-		X	X	X

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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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 WGTP 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									
	606_04_22_SS_Primary_EUF				Jn0010588				
19	SX_OB_20220606_04_23_SS_Duplicate_EUF	Jun 06, 2022	4:23AM	Soil	M22-Jn0010589		X	X	X
20	SX_OB_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	AUS Leachate - pH 5.0	M22-Jn0010590	X		X	
21	SX_OB_20220604_11_57_SS_Primary_EU	Jun 04, 2022	11:57AM	AUS Leachate - pH 5.0	M22-Jn0010591	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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								
22	SX_OB_20220604_19_51_SS_Primary_EUF	Jun 04, 2022	7:51PM	AUS Leachate - pH 5.0	M22-Jn0010592	X		X	
23	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	AUS Leachate - pH 5.0	M22-Jn0010593	X		X	
24	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	AUS Leachate - pH 5.0	M22-Jn0010594	X		X	
25	SX_OB_20220	Jun 05, 2022	3:56AM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	605_03_56_SS_Primary_EUF			- pH 5.0	Jn0010595				
26	SX_OB_20220605_08_13_SS_Triplicate_EUF	Jun 05, 2022	8:13AM	AUS Leachate - pH 5.0	M22-Jn0010596	X		X	
27	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	AUS Leachate - pH 5.0	M22-Jn0010597	X		X	
28	SX_OB_20220605_12_12_SS_Triplicate_E	Jun 05, 2022	12:12PM	AUS Leachate - pH 5.0	M22-Jn0010598	X		X	

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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								
29	SX_OB_20220605_12_17_SS_Primary_EUF	Jun 05, 2022	12:17PM	AUS Leachate - pH 5.0	M22-Jn0010599	X		X	
30	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	AUS Leachate - pH 5.0	M22-Jn0010600	X		X	
31	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Jn0010601	X		X	
32	SX_OB_20220	Jun 05, 2022	7:54PM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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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 WGTP 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									
	605_19_54_SS_Triplicate_EUF			- pH 5.0	Jn0010602				
33	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	AUS Leachate - pH 5.0	M22-Jn0010603	X		X	
34	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	AUS Leachate - pH 5.0	M22-Jn0010604	X		X	
35	SX_OB_20220606_04_22_SS_Primary_EU	Jun 06, 2022	4:22AM	AUS Leachate - pH 5.0	M22-Jn0010605	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Fullarton
SA 5063

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_20220606_04_23_SS_Duplicate_EUF	Jun 06, 2022	4:23AM	AUS Leachate - pH 5.0	M22-Jn0010606	X		X	
37	SX_OB_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	AUS Leachate - Reagent Water	M22-Jn0010607	X		X	
38	SX_OB_20220604_11_57_SS_Primary_EUF	Jun 04, 2022	11:57AM	AUS Leachate - Reagent Water	M22-Jn0010608	X		X	
39	SX_OB_20220	Jun 04, 2022	7:51PM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Fullarton
SA 5063

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	604_19_51_SS_Primary_EUF			- Reagent Water	Jn0010609				
40	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	AUS Leachate - Reagent Water	M22-Jn0010610	X		X	
41	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	AUS Leachate - Reagent Water	M22-Jn0010611	X		X	
42	SX_OB_20220605_03_56_SS_Primary_EU	Jun 05, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Jn0010612	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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								
43	SX_OB_20220605_08_13_SS_Triplicate_EUF	Jun 05, 2022	8:13AM	AUS Leachate - Reagent Water	M22-Jn0010613	X		X	
44	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	AUS Leachate - Reagent Water	M22-Jn0010614	X		X	
45	SX_OB_20220605_12_12_SS_Triplicate_EUF	Jun 05, 2022	12:12PM	AUS Leachate - Reagent Water	M22-Jn0010615	X		X	
46	SX_OB_20220	Jun 05, 2022	12:17PM	AUS Leachate	M22-	X		X	

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
	605_12_17_SS_Primary_EUF			- Reagent Water	Jn0010616				
47	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	AUS Leachate - Reagent Water	M22-Jn0010617	X		X	
48	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Jn0010618	X		X	
49	SX_OB_20220605_19_54_SS_Triplicate_E	Jun 05, 2022	7:54PM	AUS Leachate - Reagent Water	M22-Jn0010619	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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								
50	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	AUS Leachate - Reagent Water	M22-Jn0010620	X		X	
51	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	AUS Leachate - Reagent Water	M22-Jn0010621	X		X	
52	SX_OB_20220606_04_22_SS_Primary_EUF	Jun 06, 2022	4:22AM	AUS Leachate - Reagent Water	M22-Jn0010622	X		X	
53	SX_OB_20220	Jun 06, 2022	4:23AM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
	606_04_23_SS_Duplicate_EUF			- Reagent Water	Jn0010623				
Test Counts						34	17	53	17

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

Attention: **Agon Lab Reports (Spoil Project)**

Report **894859-L**
Project name 20220606044929-Eurofin-8
Project ID JC0927
Received Date Jun 06, 2022

Client Sample ID			SX_OB_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_SS_Primary_EUF	SX_OB_20220604_19_52_SS_Duplicate_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-Jn0010590**	**M22-Jn0010591**	**M22-Jn0010592**	**M22-Jn0010593**
Date Sampled			**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 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	4.9	5.0	4.9	5.8
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 (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	%	84	99	83	98
13C5-PFPeA (surr.)	1	%	107	112	100	104
13C5-PFHxA (surr.)	1	%	119	117	88	120
13C4-PFHpA (surr.)	1	%	113	113	101	107
13C8-PFOA (surr.)	1	%	148	144	152	149
13C5-PFNA (surr.)	1	%	124	126	125	134
13C6-PFDA (surr.)	1	%	126	109	118	111
13C2-PFUnDA (surr.)	1	%	129	108	124	103
13C2-PFDoDA (surr.)	1	%	137	119	138	104
13C2-PFTeDA (surr.)	1	%	107	144	112	110

Client Sample ID			SX_OB_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_SS_Primary_EUF	SX_OB_20220604_19_52_SS_Duplicate_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-Jn0010590**	**M22-Jn0010591**	**M22-Jn0010592**	**M22-Jn0010593**
Date Sampled			**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 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	%	105	91	106	87
D3-N-MeFOSA (surr.)	1	%	59	40	61	27
D5-N-EtFOSA (surr.)	1	%	86	54	88	37
D7-N-MeFOSE (surr.)	1	%	73	69	75	62
D9-N-EtFOSE (surr.)	1	%	72	72	77	63
D5-N-EtFOSAA (surr.)	1	%	115	92	111	88
D3-N-MeFOSAA (surr.)	1	%	107	106	109	107
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	%	130	126	124	135
18O2-PFHxS (surr.)	1	%	114	116	111	116
13C8-PFOS (surr.)	1	%	108	111	108	110
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	128	138	142	109
13C2-6:2 FTSA (surr.)	1	%	116	90	176	141
13C2-8:2 FTSA (surr.)	1	%	98	115	112	105
13C2-10:2 FTSA (surr.)	1	%	116	83	114	75
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_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF	SX_OB_20220605_08_18_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-Jn0010594**	**M22-Jn0010595**	**M22-Jn0010596**	**M22-Jn0010597**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	5.9	5.9	5.9	5.9
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	%	92	91	91	93
13C5-PFPeA (surr.)	1	%	91	93	88	103
13C5-PFHxA (surr.)	1	%	98	114	116	111
13C4-PFHpA (surr.)	1	%	119	115	107	104
13C8-PFOA (surr.)	1	%	144	139	141	145
13C5-PFNA (surr.)	1	%	123	124	116	117
13C6-PFDA (surr.)	1	%	99	81	81	99
13C2-PFUnDA (surr.)	1	%	95	78	77	96
13C2-PFDoDA (surr.)	1	%	104	78	81	98
13C2-PFTeDA (surr.)	1	%	119	90	91	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	%	60	49	49	83
D3-N-MeFOSA (surr.)	1	%	15	13	13	32
D5-N-EtFOSA (surr.)	1	%	26	22	23	42
D7-N-MeFOSE (surr.)	1	%	45	36	34	60
D9-N-EtFOSE (surr.)	1	%	51	43	42	61
D5-N-EtFOSAA (surr.)	1	%	86	67	67	83
D3-N-MeFOSAA (surr.)	1	%	92	79	75	94

Client Sample ID			SX_OB_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF	SX_OB_20220605_08_18_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-Jn0010594**	**M22-Jn0010595**	**M22-Jn0010596**	**M22-Jn0010597**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit				
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	%	122	128	132	134
18O2-PFHxS (surr.)	1	%	111	113	116	123
13C8-PFOS (surr.)	1	%	108	95	93	112
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	132	115	100	106
13C2-6:2 FTSA (surr.)	1	%	129	151	141	140
13C2-8:2 FTSA (surr.)	1	%	114	95	87	102
13C2-10:2 FTSA (surr.)	1	%	66	62	55	72
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_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_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-Jn0010598**	**M22-Jn0010599**	**M22-Jn0010600**	**M22-Jn0010601**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	5.9	6.0	6.0	5.3

Client Sample ID			SX_OB_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_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-Jn0010598**	**M22-Jn0010599**	**M22-Jn0010600**	**M22-Jn0010601**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	%	95	92	93	94
13C5-PFPeA (surr.)	1	%	117	94	93	97
13C5-PFHxA (surr.)	1	%	117	112	108	124
13C4-PFHpA (surr.)	1	%	113	118	120	112
13C8-PFOA (surr.)	1	%	144	143	135	141
13C5-PFNA (surr.)	1	%	127	116	121	121
13C6-PFDA (surr.)	1	%	102	79	91	82
13C2-PFUnDA (surr.)	1	%	95	76	83	74
13C2-PFDoDA (surr.)	1	%	91	78	86	78
13C2-PFTeDA (surr.)	1	%	100	78	89	100
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	%	85	49	60	47
D3-N-MeFOSA (surr.)	1	%	34	17	16	12
D5-N-EtFOSA (surr.)	1	%	40	25	28	20
D7-N-MeFOSE (surr.)	1	%	64	37	38	36
D9-N-EtFOSE (surr.)	1	%	65	42	44	42
D5-N-EtFOSAA (surr.)	1	%	82	70	77	64
D3-N-MeFOSAA (surr.)	1	%	95	75	87	67
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_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_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-Jn0010598**	**M22-Jn0010599**	**M22-Jn0010600**	**M22-Jn0010601**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
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	%	122	129	130	132
18O2-PFHxS (surr.)	1	%	112	113	112	113
13C8-PFOS (surr.)	1	%	108	94	105	96
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	134	115	135	111
13C2-6:2 FTSA (surr.)	1	%	139	150	157	138
13C2-8:2 FTSA (surr.)	1	%	100	82	86	70
13C2-10:2 FTSA (surr.)	1	%	68	58	62	54
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_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220606_04_22_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-Jn0010602**	**M22-Jn0010603**	**M22-Jn0010604**	**M22-Jn0010605**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 06, 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	5.3	5.3	5.3	5.3
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

Client Sample ID			SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220606_04_22_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-Jn0010602**	**M22-Jn0010603**	**M22-Jn0010604**	**M22-Jn0010605**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 06, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
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	%	92	98	98	95
13C5-PFPeA (surr.)	1	%	100	93	105	92
13C5-PFHxA (surr.)	1	%	113	107	111	112
13C4-PFHpA (surr.)	1	%	120	109	108	106
13C8-PFOA (surr.)	1	%	139	143	155	145
13C5-PFNA (surr.)	1	%	128	116	119	121
13C6-PFDA (surr.)	1	%	98	100	96	95
13C2-PFUnDA (surr.)	1	%	92	86	91	71
13C2-PFDoDA (surr.)	1	%	93	90	99	71
13C2-PFTeDA (surr.)	1	%	100	106	117	76
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	%	56	76	75	59
D3-N-MeFOSA (surr.)	1	%	12	29	23	20
D5-N-EtFOSA (surr.)	1	%	23	37	32	24
D7-N-MeFOSE (surr.)	1	%	41	60	58	39
D9-N-EtFOSE (surr.)	1	%	50	60	61	41
D5-N-EtFOSAA (surr.)	1	%	77	78	78	59
D3-N-MeFOSAA (surr.)	1	%	85	87	90	74
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	%	128	127	132	127
18O2-PFHxS (surr.)	1	%	111	114	112	114
13C8-PFOS (surr.)	1	%	102	108	98	107

Client Sample ID			SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220606_04_22_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-Jn0010602**	**M22-Jn0010603**	**M22-Jn0010604**	**M22-Jn0010605**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 06, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	108	118	114	131
13C2-6:2 FTSA (surr.)	1	%	144	111	119	134
13C2-8:2 FTSA (surr.)	1	%	92	76	68	78
13C2-10:2 FTSA (surr.)	1	%	62	64	69	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_20220606_04_23_SS_Duplicate_EUF	SX_OB_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_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-Jn0010606**	**M22-Jn0010607**	**M22-Jn0010608**	**M22-Jn0010609**
Date Sampled			**Jun 06, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 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	5.0	6.7	6.7	6.7
pH (off)	0.1	pH Units	5.3	7.3	7.5	7.5
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 (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	%	54	93	49	95

Client Sample ID			SX_OB_20220606_04_23_SS_Duplicate_EUF	SX_OB_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_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-Jn0010606	M22-Jn0010607	M22-Jn0010608	M22-Jn0010609
Date Sampled			Jun 06, 2022	Jun 04, 2022	Jun 04, 2022	Jun 04, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	68	109	71	94
13C5-PFHxA (surr.)	1	%	63	120	59	111
13C4-PFHpA (surr.)	1	%	75	111	74	115
13C8-PFOA (surr.)	1	%	112	131	107	133
13C5-PFNA (surr.)	1	%	117	131	96	123
13C6-PFDA (surr.)	1	%	75	107	88	106
13C2-PFUnDA (surr.)	1	%	81	108	82	90
13C2-PFDoDA (surr.)	1	%	80	101	112	77
13C2-PFTeDA (surr.)	1	%	80	103	66	85
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	79	86	74
D3-N-MeFOSA (surr.)	1	%	43	18	55	15
D5-N-EtFOSA (surr.)	1	%	43	25	46	28
D7-N-MeFOSE (surr.)	1	%	77	33	53	27
D9-N-EtFOSE (surr.)	1	%	69	37	59	33
D5-N-EtFOSAA (surr.)	1	%	102	88	37	77
D3-N-MeFOSAA (surr.)	1	%	50	108	28	91
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	%	88	128	57	124
18O2-PFHxS (surr.)	1	%	76	113	87	112
13C8-PFOS (surr.)	1	%	86	113	76	114

Client Sample ID			SX_OB_20220606_04_23_SS_Duplicate_EUF	SX_OB_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_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-Jn0010606**	**M22-Jn0010607**	**M22-Jn0010608**	**M22-Jn0010609**
Date Sampled			**Jun 06, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	48	110	81	118
13C2-6:2 FTSA (surr.)	1	%	136	128	98	141
13C2-8:2 FTSA (surr.)	1	%	44	102	48	103
13C2-10:2 FTSA (surr.)	1	%	56	66	30	55
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_20220604_19_52_SS_Duplicate_EUF	SX_OB_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF
Sample Matrix			**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**M22-Jn0010610**	**M22-Jn0010611**	**M22-Jn0010612**	**M22-Jn0010613**
Date Sampled			**Jun 04, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	6.7	6.7	6.7	6.7
pH (off)	0.1	pH Units	7.6	7.7	7.7	7.8
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 (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	%	88	81	86	95

Client Sample ID			SX_OB_20220604_19_52_SS_Duplicate_EUF	SX_OB_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Jn0010610	M22-Jn0010611	M22-Jn0010612	M22-Jn0010613
Date Sampled			Jun 04, 2022	Jun 05, 2022	Jun 05, 2022	Jun 05, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	87	80	95	98
13C5-PFHxA (surr.)	1	%	113	98	101	112
13C4-PFHpA (surr.)	1	%	111	93	104	117
13C8-PFOA (surr.)	1	%	133	120	125	137
13C5-PFNA (surr.)	1	%	125	113	117	133
13C6-PFDA (surr.)	1	%	105	86	93	104
13C2-PFUnDA (surr.)	1	%	103	80	86	98
13C2-PFDoDA (surr.)	1	%	98	74	77	95
13C2-PFTeDA (surr.)	1	%	105	73	97	94
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	%	77	61	65	79
D3-N-MeFOSA (surr.)	1	%	25	19	21	25
D5-N-EtFOSA (surr.)	1	%	12	10	23	28
D7-N-MeFOSE (surr.)	1	%	35	23	25	32
D9-N-EtFOSE (surr.)	1	%	42	28	30	36
D5-N-EtFOSAA (surr.)	1	%	90	69	77	88
D3-N-MeFOSAA (surr.)	1	%	98	82	94	98
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	%	125	113	124	127
18O2-PFHxS (surr.)	1	%	112	101	104	114
13C8-PFOS (surr.)	1	%	109	94	105	117

Client Sample ID			SX_OB_20220604_19_52_SS_Duplicate_EUF	SX_OB_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF
Sample Matrix			**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**M22-Jn0010610**	**M22-Jn0010611**	**M22-Jn0010612**	**M22-Jn0010613**
Date Sampled			**Jun 04, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	108	79	102	108
13C2-6:2 FTSA (surr.)	1	%	123	98	113	140
13C2-8:2 FTSA (surr.)	1	%	89	80	91	98
13C2-10:2 FTSA (surr.)	1	%	65	52	55	65
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_20220605_08_18_SS_Primary_EUF	SX_OB_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_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-Jn0010614**	**M22-Jn0010615**	**M22-Jn0010616**	**M22-Jn0010617**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	6.7	6.7	6.7	6.7
pH (off)	0.1	pH Units	7.8	7.8	8.0	8.1
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 (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	%	89	88	96	95

Client Sample ID			SX_OB_20220605_08_18_SS_Primary_EUF	SX_OB_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_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-Jn0010614	M22-Jn0010615	M22-Jn0010616	M22-Jn0010617
Date Sampled			Jun 05, 2022	Jun 05, 2022	Jun 05, 2022	Jun 05, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	89	89	100	98
13C5-PFHxA (surr.)	1	%	104	114	120	123
13C4-PFHpA (surr.)	1	%	111	115	108	121
13C8-PFOA (surr.)	1	%	136	141	138	147
13C5-PFNA (surr.)	1	%	119	127	105	126
13C6-PFDA (surr.)	1	%	100	102	105	117
13C2-PFUnDA (surr.)	1	%	90	100	93	120
13C2-PFDoDA (surr.)	1	%	76	99	86	130
13C2-PFTeDA (surr.)	1	%	87	118	104	115
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	84	79	101
D3-N-MeFOSA (surr.)	1	%	11	24	18	29
D5-N-EtFOSA (surr.)	1	%	13	12	26	14
D7-N-MeFOSE (surr.)	1	%	27	38	28	46
D9-N-EtFOSE (surr.)	1	%	32	43	33	53
D5-N-EtFOSAA (surr.)	1	%	82	86	88	105
D3-N-MeFOSAA (surr.)	1	%	96	104	96	119
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	%	124	130	132	134
18O2-PFHxS (surr.)	1	%	112	115	116	120
13C8-PFOS (surr.)	1	%	111	116	111	121

Client Sample ID			SX_OB_20220605_08_18_SS_Primary_EUF	SX_OB_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_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-Jn0010614	M22-Jn0010615	M22-Jn0010616	M22-Jn0010617
Date Sampled			Jun 05, 2022	Jun 05, 2022	Jun 05, 2022	Jun 05, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	124	120	108	136
13C2-6:2 FTSA (surr.)	1	%	120	139	106	141
13C2-8:2 FTSA (surr.)	1	%	93	91	88	99
13C2-10:2 FTSA (surr.)	1	%	55	69	58	85
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_20220605_16_02_SS_Duplicate_EUF	SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_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-Jn0010618	M22-Jn0010619	M22-Jn0010620	M22-Jn0010621
Date Sampled			Jun 05, 2022	Jun 05, 2022	Jun 05, 2022	Jun 05, 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	6.7	6.7	6.7	6.7
pH (off)	0.1	pH Units	8.3	8.2	8.3	8.3
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	%	93	98	93	93

Client Sample ID			SX_OB_20220605_16_02_SS_Duplicate_EUF	SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_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-Jn0010618**	**M22-Jn0010619**	**M22-Jn0010620**	**M22-Jn0010621**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	99	95	100	90
13C5-PFHxA (surr.)	1	%	116	121	109	110
13C4-PFHpA (surr.)	1	%	111	118	98	109
13C8-PFOA (surr.)	1	%	140	145	140	135
13C5-PFNA (surr.)	1	%	125	133	97	125
13C6-PFDA (surr.)	1	%	107	113	107	104
13C2-PFUnDA (surr.)	1	%	107	114	111	107
13C2-PFDoDA (surr.)	1	%	113	118	118	112
13C2-PFTeDA (surr.)	1	%	122	116	142	121
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	93	100	81
D3-N-MeFOSA (surr.)	1	%	17	14	41	18
D5-N-EtFOSA (surr.)	1	%	12	13	52	30
D7-N-MeFOSE (surr.)	1	%	47	41	69	36
D9-N-EtFOSE (surr.)	1	%	53	47	70	42
D5-N-EtFOSAA (surr.)	1	%	95	102	99	99
D3-N-MeFOSAA (surr.)	1	%	103	118	113	102
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	%	136	129	122	128
18O2-PFHxS (surr.)	1	%	115	115	111	112
13C8-PFOS (surr.)	1	%	112	120	108	115

Client Sample ID			SX_OB_20220605_16_02_SS_Duplicate_EUF	SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_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-Jn0010618**	**M22-Jn0010619**	**M22-Jn0010620**	**M22-Jn0010621**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	105	118	89	113
13C2-6:2 FTSA (surr.)	1	%	110	127	81	117
13C2-8:2 FTSA (surr.)	1	%	113	105	81	87
13C2-10:2 FTSA (surr.)	1	%	80	75	84	80
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_20220606_04_22_SS_Primary_EUF	SX_OB_20220606_04_23_SS_Duplicate_EUF
Sample Matrix			**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**M22-Jn0010622**	**M22-Jn0010623**
Date Sampled			**Jun 06, 2022**	**Jun 06, 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	6.7	6.7
pH (off)	0.1	pH Units	8.5	8.5
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	%	93	37

Client Sample ID			SX_OB_20220606_04_22_SS_Primary_EUF	SX_OB_20220606_04_23_SS_Duplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Jn0010622	M22-Jn0010623
Date Sampled			Jun 06, 2022	Jun 06, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
13C5-PFPeA (surr.)	1	%	110	37
13C5-PFHxA (surr.)	1	%	121	47
13C4-PFHpA (surr.)	1	%	109	40
13C8-PFOA (surr.)	1	%	143	52
13C5-PFNA (surr.)	1	%	122	47
13C6-PFDA (surr.)	1	%	112	43
13C2-PFUnDA (surr.)	1	%	110	44
13C2-PFDoDA (surr.)	1	%	125	45
13C2-PFTeDA (surr.)	1	%	116	54
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	%	96	36
D3-N-MeFOSA (surr.)	1	%	30	14
D5-N-EtFOSA (surr.)	1	%	13	21
D7-N-MeFOSE (surr.)	1	%	44	18
D9-N-EtFOSE (surr.)	1	%	49	20
D5-N-EtFOSAA (surr.)	1	%	102	39
D3-N-MeFOSAA (surr.)	1	%	116	43
Perfluoroalkyl sulfonic acids (PFSAs)				
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	%	140	50
18O2-PFHxS (surr.)	1	%	119	45
13C8-PFOS (surr.)	1	%	121	45

Client Sample ID			SX_OB_20220606_04_22_SS_Primary_EUF	SX_OB_20220606_04_23_SS_Duplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Jn0010622	M22-Jn0010623
Date Sampled			Jun 06, 2022	Jun 06, 2022
Test/Reference	LOR	Unit		
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
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	%	107	39
13C2-6:2 FTSA (surr.)	1	%	133	37
13C2-8:2 FTSA (surr.)	1	%	101	32
13C2-10:2 FTSA (surr.)	1	%	91	32
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)	Melbourne	Jun 06, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (Leachate fluid)	Melbourne	Jun 06, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (off)	Melbourne	Jun 06, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 06, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	Soil	M22-Jn0010571		X	X	X
2	SX_OB_20220604_11_57_SS_Primary_EUF	Jun 04, 2022	11:57AM	Soil	M22-Jn0010572		X	X	X
3	SX_OB_20220604_19_51_SS_Primary_EUF	Jun 04, 2022	7:51PM	Soil	M22-Jn0010573		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
4	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	Soil	M22-Jn0010574		X	X	X
5	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	Soil	M22-Jn0010575		X	X	X
6	SX_OB_20220605_03_56_SS_Primary_EUF	Jun 05, 2022	3:56AM	Soil	M22-Jn0010576		X	X	X
7	SX_OB_20220605_08_13_S	Jun 05, 2022	8:13AM	Soil	M22-Jn0010577		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
	S_Triplicate_EUF								
8	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	Soil	M22-Jn0010578		X	X	X
9	SX_OB_20220605_12_12_SS_Triplicate_EUF	Jun 05, 2022	12:12PM	Soil	M22-Jn0010579		X	X	X
10	SX_OB_20220605_12_17_SS_Primary_EUF	Jun 05, 2022	12:17PM	Soil	M22-Jn0010580		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
11	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	Soil	M22-Jn0010581		X	X	X
12	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	Soil	M22-Jn0010582		X	X	X
13	SX_OB_20220605_16_30_SR_Rinsate_EUF	Jun 05, 2022	4:30PM	Water	M22-Jn0010583			X	
14	SX_OB_20220605_16_32_S	Jun 05, 2022	4:32PM	Water	M22-Jn0010584			X	

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	B_Blank_EUF								
15	SX_OB_20220605_19_54_SS_Triplicate_EUF	Jun 05, 2022	7:54PM	Soil	M22-Jn0010585		X	X	X
16	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	Soil	M22-Jn0010586		X	X	X
17	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	Soil	M22-Jn0010587		X	X	X
18	SX_OB_20220	Jun 06, 2022	4:22AM	Soil	M22-		X	X	X

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	606_04_22_SS_Primary_EUF				Jn0010588				
19	SX_OB_20220606_04_23_SS_Duplicate_EUF	Jun 06, 2022	4:23AM	Soil	M22-Jn0010589		X	X	X
20	SX_OB_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	AUS Leachate - pH 5.0	M22-Jn0010590	X		X	
21	SX_OB_20220604_11_57_SS_Primary_EU	Jun 04, 2022	11:57AM	AUS Leachate - pH 5.0	M22-Jn0010591	X		X	

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Fullarton
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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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								
22	SX_OB_20220604_19_51_SS_Primary_EUF	Jun 04, 2022	7:51PM	AUS Leachate - pH 5.0	M22-Jn0010592	X		X	
23	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	AUS Leachate - pH 5.0	M22-Jn0010593	X		X	
24	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	AUS Leachate - pH 5.0	M22-Jn0010594	X		X	
25	SX_OB_20220	Jun 05, 2022	3:56AM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	605_03_56_SS_Primary_EUF			- pH 5.0	Jn0010595				
26	SX_OB_20220605_08_13_SS_Triplicate_EUF	Jun 05, 2022	8:13AM	AUS Leachate - pH 5.0	M22-Jn0010596	X		X	
27	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	AUS Leachate - pH 5.0	M22-Jn0010597	X		X	
28	SX_OB_20220605_12_12_SS_Triplicate_E	Jun 05, 2022	12:12PM	AUS Leachate - pH 5.0	M22-Jn0010598	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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								
29	SX_OB_20220605_12_17_SS_Primary_EUF	Jun 05, 2022	12:17PM	AUS Leachate - pH 5.0	M22-Jn0010599	X		X	
30	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	AUS Leachate - pH 5.0	M22-Jn0010600	X		X	
31	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Jn0010601	X		X	
32	SX_OB_20220	Jun 05, 2022	7:54PM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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NATA # 1261 Site # 25079

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	605_19_54_SS_Triplicate_EUF			- pH 5.0	Jn0010602				
33	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	AUS Leachate - pH 5.0	M22-Jn0010603	X		X	
34	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	AUS Leachate - pH 5.0	M22-Jn0010604	X		X	
35	SX_OB_20220606_04_22_SS_Primary_EU	Jun 06, 2022	4:22AM	AUS Leachate - pH 5.0	M22-Jn0010605	X		X	

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web: www.eurofins.com.au
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ABN: 50 005 085 521

Melbourne
6 Monterey Road
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Sydney
179 Magowar Road
Girraween NSW 2066
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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									
	F								
36	SX_OB_20220606_04_23_SS_Duplicate_EUF	Jun 06, 2022	4:23AM	AUS Leachate - pH 5.0	M22-Jn0010606	X		X	
37	SX_OB_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	AUS Leachate - Reagent Water	M22-Jn0010607	X		X	
38	SX_OB_20220604_11_57_SS_Primary_EUF	Jun 04, 2022	11:57AM	AUS Leachate - Reagent Water	M22-Jn0010608	X		X	
39	SX_OB_20220	Jun 04, 2022	7:51PM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
	604_19_51_SS_Primary_EUF			- Reagent Water	Jn0010609				
40	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	AUS Leachate - Reagent Water	M22-Jn0010610	X		X	
41	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	AUS Leachate - Reagent Water	M22-Jn0010611	X		X	
42	SX_OB_20220605_03_56_SS_Primary_EU	Jun 05, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Jn0010612	X		X	

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6 Monterey Road
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Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Rolleston, Christchurch 7675
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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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								
43	SX_OB_20220605_08_13_SS_Triplicate_EUF	Jun 05, 2022	8:13AM	AUS Leachate - Reagent Water	M22-Jn0010613	X		X	
44	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	AUS Leachate - Reagent Water	M22-Jn0010614	X		X	
45	SX_OB_20220605_12_12_SS_Triplicate_EUF	Jun 05, 2022	12:12PM	AUS Leachate - Reagent Water	M22-Jn0010615	X		X	
46	SX_OB_20220	Jun 05, 2022	12:17PM	AUS Leachate	M22-	X		X	

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
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Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	605_12_17_SS_Primary_EUF			- Reagent Water	Jn0010616				
47	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	AUS Leachate - Reagent Water	M22-Jn0010617	X		X	
48	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Jn0010618	X		X	
49	SX_OB_20220605_19_54_SS_Triplicate_E	Jun 05, 2022	7:54PM	AUS Leachate - Reagent Water	M22-Jn0010619	X		X	

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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NATA # 1261 Site # 1254

Sydney
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Murarrie QLD 4172
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Auckland
35 O'Rorke Road
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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									
	UF								
50	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	AUS Leachate - Reagent Water	M22-Jn0010620	X		X	
51	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	AUS Leachate - Reagent Water	M22-Jn0010621	X		X	
52	SX_OB_20220606_04_22_SS_Primary_EUF	Jun 06, 2022	4:22AM	AUS Leachate - Reagent Water	M22-Jn0010622	X		X	
53	SX_OB_20220	Jun 06, 2022	4:23AM	AUS Leachate	M22-	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	606_04_23_SS_Duplicate_EUF			- Reagent Water	Jn0010623				
Test Counts						34	17	53	17

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 (*bis*-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.

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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 (PFTrDA)	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 (PFSAs)							
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 FTSAs)							
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)	%	90			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	114			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	101			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	105			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	103			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	104			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	99			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	111			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	109			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	106			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)	%	89			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	127			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	125			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	114			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	110			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	106			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	107			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	100			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	97			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	88			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	103			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	102			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	98			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	98			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	110			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	110			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	128			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	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-Jn0010595	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Jn0010595	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Jn0010595	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Jn0010595	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Jn0010595	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Jn0010595	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-Jn0010595	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Jn0010595	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Jn0010595	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Jn0010595	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Jn0010598	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Jn0010598	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Jn0010598	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Jn0010598	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Jn0010598	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Jn0010598	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Jn0010598	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Jn0010598	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Jn0010598	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Jn0010598	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Jn0010602	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Jn0010602	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Jn0010602	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Jn0010602	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Jn0010602	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Jn0010602	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Jn0010602	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Jn0010602	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Jn0010602	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Jn0010602	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Jn0010616	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Jn0010616	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Jn0010616	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Jn0010616	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Jn0010616	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Jn0010616	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Jn0010616	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Jn0010616	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Jn0010616	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Jn0010616	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Jn0010616	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:

Harry Bacalis	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS

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.

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: **Agon Lab Reports (Spoil Project)**

Report **894859-S**
Project name 20220606044929-Eurofin-8
Project ID JC0927
Received Date Jun 06, 2022

Client Sample ID			SX_OB_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_SS_Primary_EUF	SX_OB_20220604_19_52_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010571**	**M22-Jn0010572**	**M22-Jn0010573**	**M22-Jn0010574**
Date Sampled			**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 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_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_SS_Primary_EUF	SX_OB_20220604_19_52_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010571**	**M22-Jn0010572**	**M22-Jn0010573**	**M22-Jn0010574**
Date Sampled			**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 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	%	79	70	65	73
Toluene-d8 (surr.)	1	%	83	75	65	68
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_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_SS_Primary_EUF	SX_OB_20220604_19_52_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010571**	**M22-Jn0010572**	**M22-Jn0010573**	**M22-Jn0010574**
Date Sampled			**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 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	%	134	131	132	109
p-Terphenyl-d14 (surr.)	1	%	55	129	50	113
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	%	124	120	128	127
Tetrachloro-m-xylene (surr.)	1	%	51	130	59	143

Client Sample ID			SX_OB_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_SS_Primary_EUF	SX_OB_20220604_19_52_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010571**	**M22-Jn0010572**	**M22-Jn0010573**	**M22-Jn0010574**
Date Sampled			**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 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
Dibutylchlorendate (surr.)	1	%	124	120	128	127
Tetrachloro-m-xylene (surr.)	1	%	51	130	59	143
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	%	38	34	36	40
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
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	470
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.9	6.4	6.1	7.2
% Moisture	1	%	30	29	33	32
Heavy Metals						
Arsenic	2	mg/kg	62	52	75	73
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	99	130	140	110
Copper	5	mg/kg	55	44	48	51
Lead	5	mg/kg	6.9	5.9	8.2	7.0
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_SS_Primary_EUF	SX_OB_20220604_19_52_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010571**	**M22-Jn0010572**	**M22-Jn0010573**	**M22-Jn0010574**
Date Sampled			**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	140	110	110	110
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	89	87	80	87
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	%	88	84	85	85
13C5-PFPeA (surr.)	1	%	100	94	103	106
13C5-PFHxA (surr.)	1	%	103	110	111	102
13C4-PFHpA (surr.)	1	%	94	93	98	94
13C8-PFOA (surr.)	1	%	109	106	115	107
13C5-PFNA (surr.)	1	%	101	104	100	101
13C6-PFDA (surr.)	1	%	116	105	110	112
13C2-PFUnDA (surr.)	1	%	118	115	117	121
13C2-PFDoDA (surr.)	1	%	121	110	118	117
13C2-PFTeDA (surr.)	1	%	83	84	83	85
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	%	97	96	100	100
D3-N-MeFOSA (surr.)	1	%	115	111	113	113
D5-N-EtFOSA (surr.)	1	%	76	78	78	77
D7-N-MeFOSE (surr.)	1	%	86	83	85	87
D9-N-EtFOSE (surr.)	1	%	90	86	88	90
D5-N-EtFOSAA (surr.)	1	%	137	128	144	138
D3-N-MeFOSAA (surr.)	1	%	145	150	149	150

Client Sample ID			SX_OB_20220604_08_19_SS_Triplicate_EUF	SX_OB_20220604_11_57_SS_Primary_EUF	SX_OB_20220604_19_51_SS_Primary_EUF	SX_OB_20220604_19_52_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010571**	**M22-Jn0010572**	**M22-Jn0010573**	**M22-Jn0010574**
Date Sampled			**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**	**Jun 04, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
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	%	107	113	109	116
18O2-PFHxS (surr.)	1	%	102	94	97	97
13C8-PFOS (surr.)	1	%	93	96	97	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	99	89	115	101
13C2-6:2 FTSA (surr.)	1	%	105	103	97	88
13C2-8:2 FTSA (surr.)	1	%	80	80	88	86
13C2-10:2 FTSA (surr.)	1	%	100	100	104	95
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_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF	SX_OB_20220605_08_18_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010575**	**M22-Jn0010576**	**M22-Jn0010577**	**M22-Jn0010578**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF	SX_OB_20220605_08_18_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010575**	**M22-Jn0010576**	**M22-Jn0010577**	**M22-Jn0010578**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF	SX_OB_20220605_08_18_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010575**	**M22-Jn0010576**	**M22-Jn0010577**	**M22-Jn0010578**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	%	67	146	58	77
Toluene-d8 (surr.)	1	%	71	142	59	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
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	%	124	105	142	103
p-Terphenyl-d14 (surr.)	1	%	131	126	139	146

Client Sample ID			SX_OB_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF	SX_OB_20220605_08_18_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010575**	**M22-Jn0010576**	**M22-Jn0010577**	**M22-Jn0010578**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	%	117	139	128	119
Tetrachloro-m-xylene (surr.)	1	%	121	118	128	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	%	117	139	128	119
Tetrachloro-m-xylene (surr.)	1	%	121	118	128	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
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_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF	SX_OB_20220605_08_18_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010575**	**M22-Jn0010576**	**M22-Jn0010577**	**M22-Jn0010578**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	%	48	42	56	50
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)	100	mg/kg	< 100	190	190	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.3	6.3	7.0	6.3
% Moisture	1	%	32	31	32	31
Heavy Metals						
Arsenic	2	mg/kg	64	56	43	51
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	100	92	81	84
Copper	5	mg/kg	40	49	40	46
Lead	5	mg/kg	8.4	6.1	6.2	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	97	110	140	110
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	69	76	73	79
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	%	102	91	87	84
13C5-PFPeA (surr.)	1	%	130	115	104	101
13C5-PFHxA (surr.)	1	%	134	115	98	110

Client Sample ID			SX_OB_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF	SX_OB_20220605_08_18_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010575**	**M22-Jn0010576**	**M22-Jn0010577**	**M22-Jn0010578**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	117	105	96	93
13C8-PFOA (surr.)	1	%	143	124	112	111
13C5-PFNA (surr.)	1	%	122	112	106	107
13C6-PFDA (surr.)	1	%	138	117	111	108
13C2-PFUnDA (surr.)	1	%	125	126	117	119
13C2-PFDoDA (surr.)	1	%	147	130	113	112
13C2-PFTeDA (surr.)	1	%	112	93	81	91
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	%	117	104	102	98
D3-N-MeFOSA (surr.)	1	%	146	131	110	110
D5-N-EtFOSA (surr.)	1	%	101	88	77	76
D7-N-MeFOSE (surr.)	1	%	110	91	90	90
D9-N-EtFOSE (surr.)	1	%	112	101	45	95
D5-N-EtFOSAA (surr.)	1	%	87	77	139	139
D3-N-MeFOSAA (surr.)	1	%	95	80	144	81
Perfluoroalkyl sulfonic acids (PFSAs)						
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	%	135	118	107	111
18O2-PFHxS (surr.)	1	%	126	109	98	95
13C8-PFOS (surr.)	1	%	119	107	102	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	151	112	100	100
13C2-6:2 FTSA (surr.)	1	%	125	110	94	96

Client Sample ID			SX_OB_20220605_00_09_SS_Primary_EUF	SX_OB_20220605_03_56_SS_Primary_EUF	SX_OB_20220605_08_13_SS_Triplicate_EUF	SX_OB_20220605_08_18_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010575**	**M22-Jn0010576**	**M22-Jn0010577**	**M22-Jn0010578**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-8:2 FTSA (surr.)	1	%	107	92	87	85
13C2-10:2 FTSA (surr.)	1	%	123	108	97	96
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_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010579**	**M22-Jn0010580**	**M22-Jn0010581**	**M22-Jn0010582**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010579**	**M22-Jn0010580**	**M22-Jn0010581**	**M22-Jn0010582**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	%	77	64	63	71
Toluene-d8 (surr.)	1	%	82	108	57	72

Client Sample ID			SX_OB_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010579**	**M22-Jn0010580**	**M22-Jn0010581**	**M22-Jn0010582**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	%	113	143	51	99
p-Terphenyl-d14 (surr.)	1	%	109	124	53	87
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_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010579**	**M22-Jn0010580**	**M22-Jn0010581**	**M22-Jn0010582**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 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	%	68	115	98	67
Tetrachloro-m-xylene (surr.)	1	%	91	117	136	134
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	%	68	115	98	67
Tetrachloro-m-xylene (surr.)	1	%	91	117	136	134
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	%	66	59	34	64
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
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	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.3	7.8	7.5	7.0
% Moisture	1	%	24	31	28	29

Client Sample ID			SX_OB_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010579**	**M22-Jn0010580**	**M22-Jn0010581**	**M22-Jn0010582**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	39	51	65	48
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	85	83	100	94
Copper	5	mg/kg	36	44	48	40
Lead	5	mg/kg	5.8	5.5	7.5	6.9
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	99	120	120	110
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	78	77	87	79
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	%	95	80	76	92
13C5-PFPeA (surr.)	1	%	90	89	69	106
13C5-PFHxA (surr.)	1	%	104	100	78	108
13C4-PFHpA (surr.)	1	%	99	87	63	92
13C8-PFOA (surr.)	1	%	112	101	84	111
13C5-PFNA (surr.)	1	%	114	93	87	106
13C6-PFDA (surr.)	1	%	117	109	97	120
13C2-PFUnDA (surr.)	1	%	129	123	92	133
13C2-PFDoDA (surr.)	1	%	125	118	96	124
13C2-PFTeDA (surr.)	1	%	180	109	89	103
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	%	103	97	84	107

Client Sample ID			SX_OB_20220605_12_12_SS_Triplicate_EUF	SX_OB_20220605_12_17_SS_Primary_EUF	SX_OB_20220605_16_00_SS_Primary_EUF	SX_OB_20220605_16_02_SS_Duplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010579**	**M22-Jn0010580**	**M22-Jn0010581**	**M22-Jn0010582**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D3-N-MeFOSA (surr.)	1	%	132	124	97	134
D5-N-EtFOSA (surr.)	1	%	178	78	134	85
D7-N-MeFOSE (surr.)	1	%	100	90	73	92
D9-N-EtFOSE (surr.)	1	%	107	102	73	99
D5-N-EtFOSAA (surr.)	1	%	65	137	93	149
D3-N-MeFOSAA (surr.)	1	%	96	148	100	81
Perfluoroalkyl sulfonic acids (PFSAs)						
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	%	115	100	87	109
18O2-PFHxS (surr.)	1	%	103	92	62	105
13C8-PFOS (surr.)	1	%	99	92	80	99
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	121	81	123	95
13C2-6:2 FTSA (surr.)	1	%	92	96	96	99
13C2-8:2 FTSA (surr.)	1	%	117	143	105	95
13C2-10:2 FTSA (surr.)	1	%	110	89	75	108
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_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220606_04_22_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010585**	**M22-Jn0010586**	**M22-Jn0010587**	**M22-Jn0010588**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 06, 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_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220606_04_22_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010585**	**M22-Jn0010586**	**M22-Jn0010587**	**M22-Jn0010588**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 06, 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	%	71	80	70	75
Toluene-d8 (surr.)	1	%	74	77	61	70
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

Client Sample ID			SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220606_04_22_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010585**	**M22-Jn0010586**	**M22-Jn0010587**	**M22-Jn0010588**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 06, 2022**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	65	58	67	86
p-Terphenyl-d14 (surr.)	1	%	53	51	60	62
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	%	64	91	69	63
Tetrachloro-m-xylene (surr.)	1	%	70	119	62	72
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	%	64	91	69	63
Tetrachloro-m-xylene (surr.)	1	%	70	119	62	72

Client Sample ID			SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220606_04_22_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010585**	**M22-Jn0010586**	**M22-Jn0010587**	**M22-Jn0010588**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 06, 2022**
Test/Reference	LOR	Unit				
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	36	int	int
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
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	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.6	7.7	7.4	7.0
% Moisture	1	%	31	27	33	27
Heavy Metals						
Arsenic	2	mg/kg	58	83	170	42
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	120	120	140	91
Copper	5	mg/kg	51	61	67	41
Lead	5	mg/kg	6.8	9.0	33	7.3
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	5.7	< 5
Nickel	5	mg/kg	120	140	160	100
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	120	110	150	79
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

Client Sample ID			SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220606_04_22_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010585**	**M22-Jn0010586**	**M22-Jn0010587**	**M22-Jn0010588**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 06, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
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	%	91	94	91	111
13C5-PFPeA (surr.)	1	%	96	105	104	117
13C5-PFHxA (surr.)	1	%	104	110	107	129
13C4-PFHpA (surr.)	1	%	93	105	98	122
13C8-PFOA (surr.)	1	%	105	109	108	132
13C5-PFNA (surr.)	1	%	102	109	99	128
13C6-PFDA (surr.)	1	%	119	123	112	140
13C2-PFUnDA (surr.)	1	%	128	134	129	167
13C2-PFDoDA (surr.)	1	%	127	128	126	161
13C2-PFTeDA (surr.)	1	%	95	188	91	128
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	%	106	111	110	133
D3-N-MeFOSA (surr.)	1	%	131	123	132	181
D5-N-EtFOSA (surr.)	1	%	91	188	96	124
D7-N-MeFOSE (surr.)	1	%	97	96	102	119
D9-N-EtFOSE (surr.)	1	%	102	103	99	127
D5-N-EtFOSAA (surr.)	1	%	124	68	129	157
D3-N-MeFOSAA (surr.)	1	%	100	95	98	110
Perfluoroalkyl sulfonic acids (PFSAs)						
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	%	117	121	117	140
18O2-PFHxS (surr.)	1	%	100	107	106	126
13C8-PFOS (surr.)	1	%	98	97	102	127

Client Sample ID			SX_OB_20220605_19_54_SS_Triplicate_EUF	SX_OB_20220605_20_00_SS_Primary_EUF	SX_OB_20220605_23_51_SS_Primary_EUF	SX_OB_20220606_04_22_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0010585**	**M22-Jn0010586**	**M22-Jn0010587**	**M22-Jn0010588**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**	**Jun 05, 2022**	**Jun 06, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	114	110	114	138
13C2-6:2 FTSA (surr.)	1	%	105	92	91	125
13C2-8:2 FTSA (surr.)	1	%	120	111	125	136
13C2-10:2 FTSA (surr.)	1	%	111	116	123	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_20220606_04_23_SS_Duplicate_EUF
Sample Matrix			**Soil**
Eurofins Sample No.			**M22-Jn0010589**
Date Sampled			**Jun 06, 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

Client Sample ID			SX_OB_20220606_04_23_SS_Duplicate_EUF
Sample Matrix			**Soil**
Eurofins Sample No.			**M22-Jn0010589**
Date Sampled			**Jun 06, 2022**
Test/Reference	LOR	Unit	
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
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

Client Sample ID			SX_OB_20220606_04_23_SS_Duplicate_EUF
Sample Matrix			**Soil**
Eurofins Sample No.			**M22-Jn0010589**
Date Sampled			**Jun 06, 2022**
Test/Reference	LOR	Unit	
Volatile Organics			
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
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	%	72
Toluene-d8 (surr.)	1	%	67
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	%	85
p-Terphenyl-d14 (surr.)	1	%	63
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

Client Sample ID			SX_OB_20220606_04_23_SS_Duplicate_EUF
Sample Matrix			Soil
Eurofins Sample No.			M22-Jn0010589
Date Sampled			Jun 06, 2022
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
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
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	%	77
Tetrachloro-m-xylene (surr.)	1	%	56
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	%	77
Tetrachloro-m-xylene (surr.)	1	%	56
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

Client Sample ID			SX_OB_20220606_04_23_SS_Duplicate_EUF
Sample Matrix			**Soil**
Eurofins Sample No.			**M22-Jn0010589**
Date Sampled			**Jun 06, 2022**
Test/Reference	LOR	Unit	
Phenols (non-Halogenated)			
Dinoseb	20	mg/kg	< 20
Phenol	0.5	mg/kg	< 0.5
Phenol-d6 (surr.)	1	%	int
Total Non-Halogenated Phenol*	20	mg/kg	< 20
Chromium (hexavalent)	1	mg/kg	< 1
Cyanide (total)	5	mg/kg	< 5
Fluoride (Total)	100	mg/kg	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.1
% Moisture	1	%	29
Heavy Metals			
Arsenic	2	mg/kg	43
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	91
Copper	5	mg/kg	43
Lead	5	mg/kg	6.8
Mercury	0.1	mg/kg	< 0.1
Molybdenum	5	mg/kg	< 5
Nickel	5	mg/kg	120
Selenium	2	mg/kg	< 2
Silver	2	mg/kg	< 2
Tin	10	mg/kg	< 10
Zinc	5	mg/kg	79
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 (PFTrDA)[N15]	5	ug/kg	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5
13C4-PFBA (surr.)	1	%	87
13C5-PFPeA (surr.)	1	%	105
13C5-PFHxA (surr.)	1	%	105
13C4-PFHpA (surr.)	1	%	95
13C8-PFOA (surr.)	1	%	104
13C5-PFNA (surr.)	1	%	109
13C6-PFDA (surr.)	1	%	112
13C2-PFUnDA (surr.)	1	%	124
13C2-PFDoDA (surr.)	1	%	114
13C2-PFTeDA (surr.)	1	%	93

Client Sample ID			SX_OB_20220606_04_23_SS_Duplicate_EUF
Sample Matrix			Soil
Eurofins Sample No.			M22-Jn0010589
Date Sampled			Jun 06, 2022
Test/Reference	LOR	Unit	
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
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	%	97
D3-N-MeFOSA (surr.)	1	%	122
D5-N-EtFOSA (surr.)	1	%	76
D7-N-MeFOSE (surr.)	1	%	90
D9-N-EtFOSE (surr.)	1	%	95
D5-N-EtFOSAA (surr.)	1	%	75
D3-N-MeFOSAA (surr.)	1	%	149
Perfluoroalkyl sulfonic acids (PFSAs)			
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	%	101
18O2-PFHxS (surr.)	1	%	98
13C8-PFOS (surr.)	1	%	89
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
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	%	91
13C2-6:2 FTSA (surr.)	1	%	101
13C2-8:2 FTSA (surr.)	1	%	91
13C2-10:2 FTSA (surr.)	1	%	99
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	Melbourne	Jun 06, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 06, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 06, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Melbourne	Jun 06, 2022	7 Days
- Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS			
Volatile Organics	Melbourne	Jun 06, 2022	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 06, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Jun 06, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Phenols (Halogenated)	Melbourne	Jun 06, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Jun 06, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Chromium (hexavalent)	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection			
Cyanide (total)	Melbourne	Jun 06, 2022	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Fluoride (Total)	Melbourne	Jun 07, 2022	28 Days
- Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE			
- Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC			
pH (1:5 Aqueous extract at 25°C as rec.)	Melbourne	Jun 06, 2022	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Metals IWRG 621 : Metals M12	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Jun 06, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 06, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	Soil	M22-Jn0010571		X	X	X
2	SX_OB_20220604_11_57_SS_Primary_EUF	Jun 04, 2022	11:57AM	Soil	M22-Jn0010572		X	X	X
3	SX_OB_20220604_19_51_SS_Primary_EUF	Jun 04, 2022	7:51PM	Soil	M22-Jn0010573		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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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 WGTP 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									
4	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	Soil	M22-Jn0010574		X	X	X
5	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	Soil	M22-Jn0010575		X	X	X
6	SX_OB_20220605_03_56_SS_Primary_EUF	Jun 05, 2022	3:56AM	Soil	M22-Jn0010576		X	X	X
7	SX_OB_20220605_08_13_S	Jun 05, 2022	8:13AM	Soil	M22-Jn0010577		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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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 WGTP 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									
	S_Triplicate_EUF								
8	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	Soil	M22-Jn0010578		X	X	X
9	SX_OB_20220605_12_12_SS_Triplicate_EUF	Jun 05, 2022	12:12PM	Soil	M22-Jn0010579		X	X	X
10	SX_OB_20220605_12_17_SS_Primary_EUF	Jun 05, 2022	12:17PM	Soil	M22-Jn0010580		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Address: 3/224 Glen Osmond Road
Fullarton
SA 5063

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
11	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	Soil	M22-Jn0010581		X	X	X
12	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	Soil	M22-Jn0010582		X	X	X
13	SX_OB_20220605_16_30_SR_Rinsate_EUF	Jun 05, 2022	4:30PM	Water	M22-Jn0010583			X	
14	SX_OB_20220605_16_32_S	Jun 05, 2022	4:32PM	Water	M22-Jn0010584			X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Fullarton
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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	B_Blank_EUF								
15	SX_OB_20220605_19_54_SS_Triplicate_EUF	Jun 05, 2022	7:54PM	Soil	M22-Jn0010585		X	X	X
16	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	Soil	M22-Jn0010586		X	X	X
17	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	Soil	M22-Jn0010587		X	X	X
18	SX_OB_20220	Jun 06, 2022	4:22AM	Soil	M22-		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Project ID: JC0927

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Report #: 894859
Phone: 08 8338 1009
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Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
	606_04_22_SS_Primary_EUF				Jn0010588				
19	SX_OB_20220606_04_23_SS_Duplicate_EUF	Jun 06, 2022	4:23AM	Soil	M22-Jn0010589		X	X	X
20	SX_OB_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	AUS Leachate - pH 5.0	M22-Jn0010590	X		X	
21	SX_OB_20220604_11_57_SS_Primary_EU	Jun 04, 2022	11:57AM	AUS Leachate - pH 5.0	M22-Jn0010591	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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								
22	SX_OB_20220604_19_51_SS_Primary_EUF	Jun 04, 2022	7:51PM	AUS Leachate - pH 5.0	M22-Jn0010592	X		X	
23	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	AUS Leachate - pH 5.0	M22-Jn0010593	X		X	
24	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	AUS Leachate - pH 5.0	M22-Jn0010594	X		X	
25	SX_OB_20220	Jun 05, 2022	3:56AM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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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 WGTP 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									
	605_03_56_SS_Primary_EUF			- pH 5.0	Jn0010595				
26	SX_OB_20220605_08_13_SS_Triplicate_EUF	Jun 05, 2022	8:13AM	AUS Leachate - pH 5.0	M22-Jn0010596	X		X	
27	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	AUS Leachate - pH 5.0	M22-Jn0010597	X		X	
28	SX_OB_20220605_12_12_SS_Triplicate_E	Jun 05, 2022	12:12PM	AUS Leachate - pH 5.0	M22-Jn0010598	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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								
29	SX_OB_20220605_12_17_SS_Primary_EUF	Jun 05, 2022	12:17PM	AUS Leachate - pH 5.0	M22-Jn0010599	X		X	
30	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	AUS Leachate - pH 5.0	M22-Jn0010600	X		X	
31	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Jn0010601	X		X	
32	SX_OB_20220	Jun 05, 2022	7:54PM	AUS Leachate	M22-	X		X	

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Address: 3/224 Glen Osmond Road
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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	605_19_54_SS_Triplicate_EUF			- pH 5.0	Jn0010602				
33	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	AUS Leachate - pH 5.0	M22-Jn0010603	X		X	
34	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	AUS Leachate - pH 5.0	M22-Jn0010604	X		X	
35	SX_OB_20220606_04_22_SS_Primary_EU	Jun 06, 2022	4:22AM	AUS Leachate - pH 5.0	M22-Jn0010605	X		X	

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email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Address: 3/224 Glen Osmond Road
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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_20220606_04_23_SS_Duplicate_EUF	Jun 06, 2022	4:23AM	AUS Leachate - pH 5.0	M22-Jn0010606	X		X	
37	SX_OB_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	AUS Leachate - Reagent Water	M22-Jn0010607	X		X	
38	SX_OB_20220604_11_57_SS_Primary_EUF	Jun 04, 2022	11:57AM	AUS Leachate - Reagent Water	M22-Jn0010608	X		X	
39	SX_OB_20220	Jun 04, 2022	7:51PM	AUS Leachate	M22-	X		X	

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	604_19_51_SS_Primary_EUF			- Reagent Water	Jn0010609				
40	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	AUS Leachate - Reagent Water	M22-Jn0010610	X		X	
41	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	AUS Leachate - Reagent Water	M22-Jn0010611	X		X	
42	SX_OB_20220605_03_56_SS_Primary_EU	Jun 05, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Jn0010612	X		X	

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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								
43	SX_OB_20220605_08_13_SS_Triplicate_EUF	Jun 05, 2022	8:13AM	AUS Leachate - Reagent Water	M22-Jn0010613	X		X	
44	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	AUS Leachate - Reagent Water	M22-Jn0010614	X		X	
45	SX_OB_20220605_12_12_SS_Triplicate_EUF	Jun 05, 2022	12:12PM	AUS Leachate - Reagent Water	M22-Jn0010615	X		X	
46	SX_OB_20220	Jun 05, 2022	12:17PM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Phone : 0800 856 450
IANZ # 1290

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	605_12_17_SS_Primary_EUF			- Reagent Water	Jn0010616				
47	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	AUS Leachate - Reagent Water	M22-Jn0010617	X		X	
48	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Jn0010618	X		X	
49	SX_OB_20220605_19_54_SS_Triplicate_E	Jun 05, 2022	7:54PM	AUS Leachate - Reagent Water	M22-Jn0010619	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

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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									
	UF								
50	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	AUS Leachate - Reagent Water	M22-Jn0010620	X		X	
51	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	AUS Leachate - Reagent Water	M22-Jn0010621	X		X	
52	SX_OB_20220606_04_22_SS_Primary_EUF	Jun 06, 2022	4:22AM	AUS Leachate - Reagent Water	M22-Jn0010622	X		X	
53	SX_OB_20220	Jun 06, 2022	4:23AM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Phone: 08 8338 1009
Fax:

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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 WGTP 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									
	606_04_23_SS_Duplicate_EUF			- Reagent Water	Jn0010623				
Test Counts						34	17	53	17

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 (*bis*-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.

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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							
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 FTSAs)							
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	%	84			70-130	Pass	
TRH C10-C14	%	118			70-130	Pass	
Naphthalene	%	91			70-130	Pass	
TRH C6-C10	%	84			70-130	Pass	
TRH >C10-C16	%	121			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	76			70-130	Pass	
1.1.1-Trichloroethane	%	80			70-130	Pass	
1.2-Dichlorobenzene	%	75			70-130	Pass	
1.2-Dichloroethane	%	76			70-130	Pass	
Benzene	%	90			70-130	Pass	
Ethylbenzene	%	79			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	77			70-130	Pass	
Toluene	%	96			70-130	Pass	
Trichloroethene	%	98			70-130	Pass	
Xylenes - Total*	%	77			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	108			70-130	Pass	
Acenaphthylene	%	121			70-130	Pass	
Anthracene	%	87			70-130	Pass	
Benz(a)anthracene	%	103			70-130	Pass	
Benzo(a)pyrene	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	%	100			70-130	Pass	
Benzo(g.h.i)perylene	%	122			70-130	Pass	
Benzo(k)fluoranthene	%	118			70-130	Pass	
Chrysene	%	121			70-130	Pass	
Dibenz(a.h)anthracene	%	112			70-130	Pass	
Fluoranthene	%	103			70-130	Pass	
Fluorene	%	113			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	119			70-130	Pass	
Naphthalene	%	121			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	99			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	104			70-130	Pass	
4.4'-DDD	%	128			70-130	Pass	
4.4'-DDE	%	102			70-130	Pass	
4.4'-DDT	%	109			70-130	Pass	
a-HCH	%	89			70-130	Pass	
Aldrin	%	99			70-130	Pass	
b-HCH	%	110			70-130	Pass	
d-HCH	%	123			70-130	Pass	
Dieldrin	%	109			70-130	Pass	
Endosulfan I	%	102			70-130	Pass	
Endosulfan II	%	105			70-130	Pass	
Endosulfan sulphate	%	89			70-130	Pass	
Endrin	%	107			70-130	Pass	
Endrin aldehyde	%	85			70-130	Pass	
Endrin ketone	%	126			70-130	Pass	
g-HCH (Lindane)	%	110			70-130	Pass	
Heptachlor	%	88			70-130	Pass	
Heptachlor epoxide	%	105			70-130	Pass	
Hexachlorobenzene	%	92			70-130	Pass	
Methoxychlor	%	86			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	78			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	99			25-140	Pass	
2.4-Dichlorophenol	%	103			25-140	Pass	
2.4.5-Trichlorophenol	%	74			25-140	Pass	
2.4.6-Trichlorophenol	%	85			25-140	Pass	
2.6-Dichlorophenol	%	83			25-140	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Chloro-3-methylphenol	%	90			25-140	Pass	
Pentachlorophenol	%	34			25-140	Pass	
Tetrachlorophenols - Total	%	93			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	108			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	46			25-140	Pass	
2-Nitrophenol	%	126			25-140	Pass	
2.4-Dimethylphenol	%	121			25-140	Pass	
2.4-Dinitrophenol	%	58			25-140	Pass	
2-Methylphenol (o-Cresol)	%	92			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	96			25-140	Pass	
4-Nitrophenol	%	35			25-140	Pass	
Dinoseb	%	56			25-140	Pass	
Phenol	%	93			25-140	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	82			70-130	Pass	
Cyanide (total)	%	106			70-130	Pass	
Fluoride (Total)	%	82			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	107			80-120	Pass	
Cadmium	%	88			80-120	Pass	
Chromium	%	108			80-120	Pass	
Copper	%	106			80-120	Pass	
Lead	%	109			80-120	Pass	
Mercury	%	101			80-120	Pass	
Molybdenum	%	108			80-120	Pass	
Nickel	%	102			80-120	Pass	
Selenium	%	103			80-120	Pass	
Silver	%	89			80-120	Pass	
Tin	%	106			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	113			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	119			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	114			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	114			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	113			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	117			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	111			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	117			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	122			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	117			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	123			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	102			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	110			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	117			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	121			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	112			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	118			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	124			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	108			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	114			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	111			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	106			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	115			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	102			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	110			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	114			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	121			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	132			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	117			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-Jn0008998	NCP	%	113			70-130	Pass	
TRH >C10-C16	M22-Jn0008998	NCP	%	120			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M22-Jn0013284	NCP	%	80			70-130	Pass	
4.4'-DDD	M22-Jn0013284	NCP	%	104			70-130	Pass	
4.4'-DDE	M22-Jn0013284	NCP	%	83			70-130	Pass	
4.4'-DDT	M22-Jn0013284	NCP	%	79			70-130	Pass	
a-HCH	M22-Jn0013284	NCP	%	86			70-130	Pass	
Aldrin	M22-Jn0013284	NCP	%	84			70-130	Pass	
b-HCH	M22-Jn0013284	NCP	%	88			70-130	Pass	
d-HCH	M22-Jn0013284	NCP	%	102			70-130	Pass	
Dieldrin	M22-Jn0013284	NCP	%	95			70-130	Pass	
Endosulfan I	M22-Jn0013284	NCP	%	85			70-130	Pass	
Endosulfan II	M22-Jn0013284	NCP	%	75			70-130	Pass	
Endosulfan sulphate	M22-Jn0013284	NCP	%	87			70-130	Pass	
Endrin	M22-Jn0013284	NCP	%	78			70-130	Pass	
Endrin aldehyde	M22-Jn0013284	NCP	%	89			70-130	Pass	
Endrin ketone	M22-Jn0013284	NCP	%	77			70-130	Pass	
g-HCH (Lindane)	M22-Jn0013284	NCP	%	76			70-130	Pass	
Heptachlor	M22-Jn0013284	NCP	%	72			70-130	Pass	
Heptachlor epoxide	M22-Jn0013284	NCP	%	84			70-130	Pass	
Hexachlorobenzene	M22-Jn0013284	NCP	%	78			70-130	Pass	
Methoxychlor	M22-Jn0013284	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	L22-My0067274	NCP	%	112			70-130	Pass	
Aroclor-1260	L22-My0067274	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M22-Jn0004850	NCP	%	51			30-130	Pass	
2.4-Dichlorophenol	M22-Jn0004850	NCP	%	87			30-130	Pass	
2.4.5-Trichlorophenol	M22-Jn0004850	NCP	%	44			30-130	Pass	
2.4.6-Trichlorophenol	M22-My0075245	NCP	%	77			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.6-Dichlorophenol	M22-Jn0004850	NCP	%	95			30-130	Pass	
Pentachlorophenol	M22-Jn0004850	NCP	%	61			30-130	Pass	
Tetrachlorophenols - Total	M22-Jn0004850	NCP	%	106			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Methyl-4.6-dinitrophenol	M22-My0075245	NCP	%	39			30-130	Pass	
2-Nitrophenol	M22-Jn0004850	NCP	%	92			30-130	Pass	
2.4-Dimethylphenol	M22-Jn0004850	NCP	%	54			30-130	Pass	
2.4-Dinitrophenol	M22-Jn0004850	NCP	%	98			30-130	Pass	
2-Methylphenol (o-Cresol)	M22-My0076151	NCP	%	71			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-My0076151	NCP	%	72			30-130	Pass	
4-Nitrophenol	M22-My0075245	NCP	%	127			30-130	Pass	
Dinoseb	M22-Jn0004850	NCP	%	80			30-130	Pass	
Phenol	M22-Jn0004850	NCP	%	33			30-130	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M22-Jn0009088	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M22-Jn0020455	NCP	%	93			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Jn0020455	NCP	%	99			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Jn0020455	NCP	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Jn0020455	NCP	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Jn0020455	NCP	%	97			50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Jn0020455	NCP	%	90			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Jn0020455	NCP	%	83			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Jn0020455	NCP	%	97			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Jn0020455	NCP	%	93			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Jn0020455	NCP	%	111			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Jn0020455	NCP	%	93			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M22-Jn0020455	NCP	%	84			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Jn0020455	NCP	%	92			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Jn0020455	NCP	%	94			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Jn0020455	NCP	%	94			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Jn0020455	NCP	%	97			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Jn0020455	NCP	%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Jn0020455	NCP	%	92			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-Jn0020455	NCP	%	84			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Jn0020455	NCP	%	81			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Jn0020455	NCP	%	78			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	M22-Jn0020455	NCP	%	78			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Jn0020455	NCP	%	94			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Jn0020455	NCP	%	81			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Jn0020455	NCP	%	92			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Jn0020455	NCP	%	91			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Jn0020455	NCP	%	80			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Jn0020455	NCP	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Jn0020455	NCP	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Jn0020455	NCP	%	90			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M22-Jn0010574	CP	%	75			70-130	Pass	
Naphthalene	M22-Jn0010574	CP	%	83			70-130	Pass	
TRH C6-C10	M22-Jn0010574	CP	%	75			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M22-Jn0010574	CP	%	73			70-130	Pass	
1.1.1-Trichloroethane	M22-Jn0010574	CP	%	82			70-130	Pass	
1.2-Dichlorobenzene	M22-Jn0010574	CP	%	78			70-130	Pass	
1.2-Dichloroethane	M22-Jn0010574	CP	%	79			70-130	Pass	
Benzene	M22-Jn0010574	CP	%	78			70-130	Pass	
Ethylbenzene	M22-Jn0010574	CP	%	83			70-130	Pass	
m&p-Xylenes	M22-Jn0010574	CP	%	80			70-130	Pass	
o-Xylene	M22-Jn0010574	CP	%	83			70-130	Pass	
Toluene	M22-Jn0010574	CP	%	76			70-130	Pass	
Trichloroethene	M22-Jn0010574	CP	%	80			70-130	Pass	
Xylenes - Total*	M22-Jn0010574	CP	%	81			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M22-Jn0010574	CP	%	96			70-130	Pass	
Acenaphthylene	M22-Jn0010574	CP	%	101			70-130	Pass	
Anthracene	M22-Jn0010574	CP	%	114			70-130	Pass	
Benz(a)anthracene	M22-Jn0010574	CP	%	102			70-130	Pass	
Benzo(a)pyrene	M22-Jn0010574	CP	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	M22-Jn0010574	CP	%	77			70-130	Pass	
Benzo(g.h.i)perylene	M22-Jn0010574	CP	%	112			70-130	Pass	
Benzo(k)fluoranthene	M22-Jn0010574	CP	%	98			70-130	Pass	
Chrysene	M22-Jn0010574	CP	%	102			70-130	Pass	
Dibenz(a.h)anthracene	M22-Jn0010574	CP	%	101			70-130	Pass	
Fluoranthene	M22-Jn0010574	CP	%	80			70-130	Pass	
Fluorene	M22-Jn0010574	CP	%	101			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M22-Jn0010574	CP	%	77			70-130	Pass	
Naphthalene	M22-Jn0010574	CP	%	98			70-130	Pass	
Phenanthrene	M22-Jn0010574	CP	%	87			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pyrene	M22-Jn0010574	CP	%	74			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
4-Chloro-3-methylphenol	M22-Jn0009008	NCP	%	122			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M22-Jn0010574	CP	%	105			30-130	Pass	
Spike - % Recovery									
				Result 1					
Fluoride (Total)	M22-Jn0013527	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M22-Jn0010576	CP	%	81			70-130	Pass	
Naphthalene	M22-Jn0010576	CP	%	78			70-130	Pass	
TRH C6-C10	M22-Jn0010576	CP	%	81			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M22-Jn0010576	CP	%	84			70-130	Pass	
1.1.1-Trichloroethane	M22-Jn0010576	CP	%	80			70-130	Pass	
1.2-Dichlorobenzene	M22-Jn0010576	CP	%	79			70-130	Pass	
1.2-Dichloroethane	M22-Jn0010576	CP	%	82			70-130	Pass	
Benzene	M22-Jn0010576	CP	%	78			70-130	Pass	
Ethylbenzene	M22-Jn0010576	CP	%	75			70-130	Pass	
m&p-Xylenes	M22-Jn0010576	CP	%	73			70-130	Pass	
o-Xylene	M22-Jn0010576	CP	%	78			70-130	Pass	
Toluene	M22-Jn0010576	CP	%	86			70-130	Pass	
Trichloroethene	M22-Jn0010576	CP	%	75			70-130	Pass	
Xylenes - Total*	M22-Jn0010576	CP	%	75			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M22-Jn0010576	CP	%	98			75-125	Pass	
Cadmium	M22-Jn0010576	CP	%	98			75-125	Pass	
Chromium	M22-Jn0010576	CP	%	79			75-125	Pass	
Copper	M22-Jn0010576	CP	%	90			75-125	Pass	
Lead	M22-Jn0010576	CP	%	97			75-125	Pass	
Mercury	M22-Jn0010576	CP	%	98			75-125	Pass	
Molybdenum	M22-Jn0010576	CP	%	105			75-125	Pass	
Nickel	M22-Jn0010576	CP	%	87			75-125	Pass	
Selenium	M22-Jn0010576	CP	%	91			75-125	Pass	
Silver	M22-Jn0010576	CP	%	103			75-125	Pass	
Tin	M22-Jn0010576	CP	%	101			75-125	Pass	
Zinc	M22-Jn0010576	CP	%	99			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M22-Jn0010579	CP	%	120			70-130	Pass	
Naphthalene	M22-Jn0010579	CP	%	116			70-130	Pass	
TRH C6-C10	M22-Jn0010579	CP	%	119			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M22-Jn0010579	CP	%	74			70-130	Pass	
1.1.1-Trichloroethane	M22-Jn0010579	CP	%	117			70-130	Pass	
1.2-Dichlorobenzene	M22-Jn0010579	CP	%	114			70-130	Pass	
1.2-Dichloroethane	M22-Jn0010579	CP	%	98			70-130	Pass	
Benzene	M22-Jn0010579	CP	%	91			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	M22-Jn0010579	CP	%	107			70-130	Pass	
m&p-Xylenes	M22-Jn0010579	CP	%	108			70-130	Pass	
o-Xylene	M22-Jn0010579	CP	%	113			70-130	Pass	
Toluene	M22-Jn0010579	CP	%	97			70-130	Pass	
Trichloroethene	M22-Jn0010579	CP	%	79			70-130	Pass	
Xylenes - Total*	M22-Jn0010579	CP	%	110			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (total)	M22-Jn0011553	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M22-Jn0010572	CP	mg/kg	< 1	< 1	<1	30%	Pass	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-Jn0010574	CP	%	32	32	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Jn0010575	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M22-Jn0010575	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M22-Jn0010575	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M22-Jn0010575	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Jn0010575	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M22-Jn0010575	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M22-Jn0010575	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M22-Jn0010575	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Benzene	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Iodomethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
m&p-Xylenes	M22-Jn0010575	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total*	M22-Jn0010575	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M22-Jn0010575	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M22-Jn0010575	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M22-Jn0010575	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M22-Jn0010575	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M22-Jn0010575	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M22-Jn0010575	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M22-Jn0010575	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M22-Jn0010575	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	M22-Jn0010575	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	M22-Jn0010575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M22-Jn0010575	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M22-Jn0010575	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Jn0010575	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M22-Jn0010575	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M22-Jn0010575	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	M22-Jn0010575	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-Jn0010575	CP	pH Units	6.3	6.4	pass	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M22-Jn0010575	CP	mg/kg	64	63	1.0	30%	Pass	
Cadmium	M22-Jn0010575	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Jn0010575	CP	mg/kg	100	100	1.0	30%	Pass	
Copper	M22-Jn0010575	CP	mg/kg	40	41	<1	30%	Pass	
Lead	M22-Jn0010575	CP	mg/kg	8.4	8.5	1.0	30%	Pass	
Mercury	M22-Jn0010575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Jn0010575	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-Jn0010575	CP	mg/kg	97	97	<1	30%	Pass	
Selenium	M22-Jn0010575	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Jn0010575	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Jn0010575	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M22-Jn0010575	CP	mg/kg	69	71	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M22-Jn0010576	CP	mg/kg	56	57	1.0	30%	Pass	
Cadmium	M22-Jn0010576	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Jn0010576	CP	mg/kg	92	93	1.0	30%	Pass	
Copper	M22-Jn0010576	CP	mg/kg	49	49	1.0	30%	Pass	
Lead	M22-Jn0010576	CP	mg/kg	6.1	6.2	2.0	30%	Pass	
Mercury	M22-Jn0010576	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Jn0010576	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-Jn0010576	CP	mg/kg	110	110	1.0	30%	Pass	
Selenium	M22-Jn0010576	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Jn0010576	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Jn0010576	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M22-Jn0010576	CP	mg/kg	76	77	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Fluoride (Total)	M22-Jn0010578	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Jn0010578	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Jn0010578	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Jn0010578	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Jn0010578	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-Jn0010586	CP	%	27	24	14	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Jn0010587	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Jn0010587	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	M22-Jn0010587	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	M22-Jn0010587	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Iodomethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
m&p-Xylenes	M22-Jn0010587	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	M22-Jn0010587	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	M22-Jn0010587	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M22-Jn0010587	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total*	M22-Jn0010587	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M22-Jn0010587	CP	mg/kg	170	170	<1	30%	Pass	
Cadmium	M22-Jn0010587	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Jn0010587	CP	mg/kg	140	140	<1	30%	Pass	
Copper	M22-Jn0010587	CP	mg/kg	67	67	<1	30%	Pass	
Lead	M22-Jn0010587	CP	mg/kg	33	34	3.0	30%	Pass	
Mercury	M22-Jn0010587	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Jn0010587	CP	mg/kg	5.7	5.8	1.0	30%	Pass	
Nickel	M22-Jn0010587	CP	mg/kg	160	160	1.0	30%	Pass	
Selenium	M22-Jn0010587	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Jn0010587	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Jn0010587	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M22-Jn0010587	CP	mg/kg	150	150	1.0	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).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Harry Bacalis	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS
Caitlin Breeze	Senior Analyst-Inorganic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Linda Chouman	Senior Analyst-Sample Properties
Joseph Edouard	Senior Analyst-Organic
Edward Lee	Senior Analyst-Organic
Harry Bacalis	Senior Analyst-Volatile
Scott Beddoes	Senior Analyst-Inorganic

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.

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: **Agon Lab Reports (Spoil Project)**

Report **894859-W**
Project name 20220606044929-Eurofin-8
Project ID JC0927
Received Date Jun 06, 2022

Client Sample ID			**SX_OB_20220605_16_30_SR_Rinsate_EUF**	**SX_OB_20220605_16_32_SB_Blank_EUF**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M22-Jn0010583**	**M22-Jn0010584**
Date Sampled			**Jun 05, 2022**	**Jun 05, 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	%	82	83
13C5-PFPeA (surr.)	1	%	95	100
13C5-PFHxA (surr.)	1	%	94	96
13C4-PFHpA (surr.)	1	%	91	90
13C8-PFOA (surr.)	1	%	143	140
13C5-PFNA (surr.)	1	%	97	99
13C6-PFDA (surr.)	1	%	100	105
13C2-PFUnDA (surr.)	1	%	94	99
13C2-PFDoDA (surr.)	1	%	99	111
13C2-PFTeDA (surr.)	1	%	111	119
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	%	90	94

Client Sample ID			SX_OB_20220605_16_30_SR_Rinsate_EUF	SX_OB_20220605_16_32_SB_Blank_EUF
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M22-Jn0010583**	**M22-Jn0010584**
Date Sampled			**Jun 05, 2022**	**Jun 05, 2022**
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
D3-N-MeFOSA (surr.)	1	%	71	76
D5-N-EtFOSA (surr.)	1	%	78	90
D7-N-MeFOSE (surr.)	1	%	59	62
D9-N-EtFOSE (surr.)	1	%	58	64
D5-N-EtFOSAA (surr.)	1	%	116	122
D3-N-MeFOSAA (surr.)	1	%	102	101
Perfluoroalkyl sulfonic acids (PFSAs)				
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	%	107	108
18O2-PFHxS (surr.)	1	%	101	106
13C8-PFOS (surr.)	1	%	107	112
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
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	%	78	83
13C2-6:2 FTSA (surr.)	1	%	90	94
13C2-8:2 FTSA (surr.)	1	%	88	94
13C2-10:2 FTSA (surr.)	1	%	94	99
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	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 06, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Jun 06, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name:	Agon Environmental Pty Ltd - VIC	**Order No.:**	**Received:** Jun 6, 2022 12:15 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	**Report #:** 894859 **Phone:** 08 8338 1009 **Fax:**	**Due:** Jun 14, 2022 **Priority:** 5 Day **Contact Name:** Agon Lab Reports (Spoil Project)
Project Name:	20220606044929-Eurofin-8		
Project ID:	JC0927		

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	Soil	M22-Jn0010571		X	X	X
2	SX_OB_20220604_11_57_SS_Primary_EUF	Jun 04, 2022	11:57AM	Soil	M22-Jn0010572		X	X	X
3	SX_OB_20220604_19_51_SS_Primary_EUF	Jun 04, 2022	7:51PM	Soil	M22-Jn0010573		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
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4/52 Industrial Drive
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NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
4	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	Soil	M22-Jn0010574		X	X	X
5	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	Soil	M22-Jn0010575		X	X	X
6	SX_OB_20220605_03_56_SS_Primary_EUF	Jun 05, 2022	3:56AM	Soil	M22-Jn0010576		X	X	X
7	SX_OB_20220605_08_13_S	Jun 05, 2022	8:13AM	Soil	M22-Jn0010577		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
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43 Detroit Drive
Rolleston, Christchurch 7675
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Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
	S_Triplicate_EUF								
8	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	Soil	M22-Jn0010578		X	X	X
9	SX_OB_20220605_12_12_SS_Triplicate_EUF	Jun 05, 2022	12:12PM	Soil	M22-Jn0010579		X	X	X
10	SX_OB_20220605_12_17_SS_Primary_EUF	Jun 05, 2022	12:17PM	Soil	M22-Jn0010580		X	X	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
11	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	Soil	M22-Jn0010581		X	X	X
12	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	Soil	M22-Jn0010582		X	X	X
13	SX_OB_20220605_16_30_SR_Rinsate_EUF	Jun 05, 2022	4:30PM	Water	M22-Jn0010583			X	
14	SX_OB_20220605_16_32_S	Jun 05, 2022	4:32PM	Water	M22-Jn0010584			X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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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 WGTP 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									
	B_Blank_EUF								
15	SX_OB_20220605_19_54_SS_Triplicate_EUF	Jun 05, 2022	7:54PM	Soil	M22-Jn0010585		X	X	X
16	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	Soil	M22-Jn0010586		X	X	X
17	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	Soil	M22-Jn0010587		X	X	X
18	SX_OB_20220	Jun 06, 2022	4:22AM	Soil	M22-		X	X	X

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Phone: 08 8338 1009
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Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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									
	606_04_22_SS_Primary_EUF				Jn0010588				
19	SX_OB_20220606_04_23_SS_Duplicate_EUF	Jun 06, 2022	4:23AM	Soil	M22-Jn0010589		X	X	X
20	SX_OB_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	AUS Leachate - pH 5.0	M22-Jn0010590	X		X	
21	SX_OB_20220604_11_57_SS_Primary_EU	Jun 04, 2022	11:57AM	AUS Leachate - pH 5.0	M22-Jn0010591	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: Agon Environmental Pty Ltd - VIC
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Fullarton
SA 5063

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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								
22	SX_OB_20220604_19_51_SS_Primary_EUF	Jun 04, 2022	7:51PM	AUS Leachate - pH 5.0	M22-Jn0010592	X		X	
23	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	AUS Leachate - pH 5.0	M22-Jn0010593	X		X	
24	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	AUS Leachate - pH 5.0	M22-Jn0010594	X		X	
25	SX_OB_20220	Jun 05, 2022	3:56AM	AUS Leachate	M22-	X		X	

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ABN: 50 005 085 521

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6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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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 WGTP 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									
	605_03_56_SS_Primary_EUF			- pH 5.0	Jn0010595				
26	SX_OB_20220605_08_13_SS_Triplicate_EUF	Jun 05, 2022	8:13AM	AUS Leachate - pH 5.0	M22-Jn0010596	X		X	
27	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	AUS Leachate - pH 5.0	M22-Jn0010597	X		X	
28	SX_OB_20220605_12_12_SS_Triplicate_E	Jun 05, 2022	12:12PM	AUS Leachate - pH 5.0	M22-Jn0010598	X		X	

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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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 WGTP 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								
29	SX_OB_20220605_12_17_SS_Primary_EUF	Jun 05, 2022	12:17PM	AUS Leachate - pH 5.0	M22-Jn0010599	X		X	
30	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	AUS Leachate - pH 5.0	M22-Jn0010600	X		X	
31	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Jn0010601	X		X	
32	SX_OB_20220	Jun 05, 2022	7:54PM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	605_19_54_SS_Triplicate_EUF			- pH 5.0	Jn0010602				
33	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	AUS Leachate - pH 5.0	M22-Jn0010603	X		X	
34	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	AUS Leachate - pH 5.0	M22-Jn0010604	X		X	
35	SX_OB_20220606_04_22_SS_Primary_EU	Jun 06, 2022	4:22AM	AUS Leachate - pH 5.0	M22-Jn0010605	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_20220606_04_23_SS_Duplicate_EUF	Jun 06, 2022	4:23AM	AUS Leachate - pH 5.0	M22-Jn0010606	X		X	
37	SX_OB_20220604_08_19_SS_Triplicate_EUF	Jun 04, 2022	8:19AM	AUS Leachate - Reagent Water	M22-Jn0010607	X		X	
38	SX_OB_20220604_11_57_SS_Primary_EUF	Jun 04, 2022	11:57AM	AUS Leachate - Reagent Water	M22-Jn0010608	X		X	
39	SX_OB_20220	Jun 04, 2022	7:51PM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
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Phone : 0800 856 450
IANZ # 1290

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	604_19_51_SS_Primary_EUF			- Reagent Water	Jn0010609				
40	SX_OB_20220604_19_52_SS_Duplicate_EUF	Jun 04, 2022	7:52PM	AUS Leachate - Reagent Water	M22-Jn0010610	X		X	
41	SX_OB_20220605_00_09_SS_Primary_EUF	Jun 05, 2022	12:09AM	AUS Leachate - Reagent Water	M22-Jn0010611	X		X	
42	SX_OB_20220605_03_56_SS_Primary_EU	Jun 05, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Jn0010612	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
179 Magowar Road
Girraween NSW 2066
Phone : +61 2 9900 8400
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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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

Project Name: 20220606044929-Eurofin-8
Project ID: JC0927

Order No.:
Report #: 894859
Phone: 08 8338 1009
Fax:

Received: Jun 6, 2022 12:15 PM
Due: Jun 14, 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 WGTP 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								
43	SX_OB_20220605_08_13_SS_Triplicate_EUF	Jun 05, 2022	8:13AM	AUS Leachate - Reagent Water	M22-Jn0010613	X		X	
44	SX_OB_20220605_08_18_SS_Primary_EUF	Jun 05, 2022	8:18AM	AUS Leachate - Reagent Water	M22-Jn0010614	X		X	
45	SX_OB_20220605_12_12_SS_Triplicate_EUF	Jun 05, 2022	12:12PM	AUS Leachate - Reagent Water	M22-Jn0010615	X		X	
46	SX_OB_20220	Jun 05, 2022	12:17PM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

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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									
	605_12_17_SS_Primary_EUF			- Reagent Water	Jn0010616				
47	SX_OB_20220605_16_00_SS_Primary_EUF	Jun 05, 2022	4:00PM	AUS Leachate - Reagent Water	M22-Jn0010617	X		X	
48	SX_OB_20220605_16_02_SS_Duplicate_EUF	Jun 05, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Jn0010618	X		X	
49	SX_OB_20220605_19_54_SS_Triplicate_E	Jun 05, 2022	7:54PM	AUS Leachate - Reagent Water	M22-Jn0010619	X		X	

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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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								
50	SX_OB_20220605_20_00_SS_Primary_EUF	Jun 05, 2022	8:00PM	AUS Leachate - Reagent Water	M22-Jn0010620	X		X	
51	SX_OB_20220605_23_51_SS_Primary_EUF	Jun 05, 2022	11:51PM	AUS Leachate - Reagent Water	M22-Jn0010621	X		X	
52	SX_OB_20220606_04_22_SS_Primary_EUF	Jun 06, 2022	4:22AM	AUS Leachate - Reagent Water	M22-Jn0010622	X		X	
53	SX_OB_20220	Jun 06, 2022	4:23AM	AUS Leachate	M22-	X		X	

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web: www.eurofins.com.au
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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									
	606_04_23_SS_Duplicate_EUF			- Reagent Water	Jn0010623				
Test Counts						34	17	53	17

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 (*bis*-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.

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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 (PFTrDA)	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 (PFSAs)							
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 FTSAs)							
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)	%	110			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	109			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	108			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	109			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	100			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	108			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	114			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	96			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	105			50-150	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	91			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	105			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	114			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	104			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	108			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	106			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	108			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	98			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	108			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	102			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	92			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	112			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	109			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	98			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	95			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	129			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	108			50-150	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:

Harry Bacalis	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS

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.

ALS Melbourne: 4 Westall Rd, Springvale, VIC 3171 Phone (03) 8549 9600; Facsimile (03) 8549 9601. Email Samples.Melbourne@alsenviro.com

CHAIN OF CUSTODY DOCUMENTATION

Australian Laboratory Services Pty Ltd

CLIENT: Agon Evironmental
ADDRESS / OFFICE: Melbourne
PROJECT MANAGER (PM): Craig Trimbur
PROJECT ID: JC0927
SITE: 20220606044423-ALS-8 P.O. NO.:
RESULTS REQUIRED (**Date**): 5 days QUOTE NO.: ME-150-19 WGTP

SAMPLER: WOH - Agon, HK and AV - EP Risk, ES - EP Risk
MOBILE 1: +61 400 826 907 (Craig Trimbur)
MOBILE 2: +61 490 411 004 (David Lawson)
EMAIL REPORT TO: Labreports.TST@agonenviro.com.au agonenvironmental@esdat.com.au motherhublabresults1@wgtp.com.au
EMAIL INVOICE TO: (if different to report) Labreports.TST@agonenviro.com.au agonenvironmental@esdat.com.au

ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)

FOR LABORATORY USE ONLY
COOLER SEAL (circle appropriate)
Intact: Yes No N/A
SAMPLE TEMPERATURE
CHILLED: Yes No

COMMENTS / SPECIAL HANDLING / STORAGE OR DIPOSAL:

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		Spoil Sample Prep	P16 plus Cr	PFAS 28 Extended suite	ASLP PFAS - Extended Suite (Lab to determine pH)	DI Leachate PFAS - Extended Suite									Notes:
ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles														
	SX_OB20220604_08_17_SS_Primary_ALS	S	4/06/2022	08:17	Bucket	1	X	X	X	X	X									
	SX_OB20220604_08_18_SS_Duplicate_ALS	S	4/06/2022	08:19	Bucket	1	X	X	X	X	X									
	SX_OB20220604_15_54_SS_Primary_ALS	S	4/06/2022	15:54	Bucket	1	X	X	X	X	X									
	SX_OB_20220604_19_52_SS_Triplicate_ALS	S	4/06/2022	19:52	Bucket	1	X	X	X	X	X									
	SX_OB_20220604_19_58_SS_Primary_ALS	S	4/06/2022	19:58	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_00_03_SS_Primary_ALS	S	5/06/2022	00:03	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_04_02_SS_Primary_ALS	S	5/06/2022	04:02	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_08_10_SS_Primary_ALS	S	5/06/2022	08:10	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_08_12_SS_Duplicate_ALS	S	5/06/2022	08:12	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_12_09_SS_Primary_ALS	S	5/06/2022	12:09	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_12_11_SS_Duplicate_ALS	S	5/06/2022	12:11	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_16_03_SS_Triplicate_ALS	S	5/06/2022	16:03	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_16_08_SS_Primary_ALS	S	5/06/2022	16:08	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_19_53_SS_Primary_ALS	S	5/06/2022	19:53	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_19_53_SS_Duplicate_ALS	S	5/06/2022	19:53	Bucket	1	X	X	X	X	X									
	SX_OB_20220605_23_56_SS_Primary_ALS	S	5/06/2022	23:56	Bucket	1	X	X	X	X	X									
	SX_OB_20220606_04_17_SS_Primary_ALS	S	6/06/2022	4:17	Bucket	1	X	X	X	X	X									
	SX_OB_20220606_04_24_SS_Triplicate_ALS	S	6/06/2022	4:24	Bucket	1	X	X	X	X	X									
	SX_OB_20220606_04_40_SR_Rinsate_ALS	W	6/06/2022	4:40	Bottle	1	X	X	X	X	X									
	SX_OB_20220606_04_41_SB_Blank_ALS	W	6/06/2022	4:41	Bottle	1	X	X	X	X	X									

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name:	Date:	Name:	Date:	Con' Note No:
Of:	Time:	Of:	Time:	
Name:	Date:	Name:	Date:	Transport Co:
Of:	Time:	Of:	Time:	

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserveed 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 Bad for Acid Sulphate Soils; B = Unpreserved Bag.

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM2210666**	Page	: 1 of 53
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	: 06-Jun-2022 11:30
Order number	: ----	Date Analysis Commenced	: 07-Jun-2022
C-O-C number	: 20220606044423-ALS-8	Issue Date	: 14-Jun-2022 17:46
Sampler	: ES - EP Risk, HK and AV - EP Risk, WOH - Agon		
Site	: 20220606044423-ALS-8		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 38		
No. of samples analysed	: 38		

ilac-MRA NATA
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.

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Organics, 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 Contract 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 EM2210666-022 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.
- EP231X: Poor matrix spike recovery for sample EM2210666-010 due to sample matrix interference.
- 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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-001	EM2210666-002	EM2210666-003	EM2210666-004	EM2210666-005
					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

Analytical Results

Sub-Matrix: **ASLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-001	EM2210666-002	EM2210666-003	EM2210666-004	EM2210666-005
					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**	**102**	**105**	**98.8**	**102**
13C8-PFOA	----	0.02	%		**100**	**103**	**94.4**	**93.8**	**94.0**

Analytical Results

Sub-Matrix: **ASLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 00:03	04-Jun-2022 04:02	04-Jun-2022 08:10	04-Jun-2022 08:12	04-Jun-2022 12:09
					EM2210666-006	EM2210666-007	EM2210666-008	EM2210666-009	EM2210666-010
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 00:03	04-Jun-2022 04:02	04-Jun-2022 08:10	04-Jun-2022 08:12	04-Jun-2022 12:09
					EM2210666-006	EM2210666-007	EM2210666-008	EM2210666-009	EM2210666-010
					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	%		**99.6**	**97.0**	**86.3**	**86.4**	**101**
13C8-PFOA	----	0.02	%		**96.9**	**104**	**88.6**	**94.0**	**99.3**

Analytical Results

Sub-Matrix: **ASLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 12:11	04-Jun-2022 16:03	04-Jun-2022 16:08	04-Jun-2022 19:53	04-Jun-2022 19:53
					EM2210666-011	EM2210666-012	EM2210666-013	EM2210666-014	EM2210666-015
					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: **ASLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 12:11	04-Jun-2022 16:03	04-Jun-2022 16:08	04-Jun-2022 19:53	04-Jun-2022 19:53
					EM2210666-011	EM2210666-012	EM2210666-013	EM2210666-014	EM2210666-015
					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	%		**102**	**109**	**105**	**109**	**98.2**
13C8-PFOA	----	0.02	%		**102**	**105**	**103**	**103**	**99.0**

Analytical Results

Sub-Matrix: **ASLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	----	----
				Sampling date / time	04-Jun-2022 23:56	04-Jun-2022 04:17	04-Jun-2022 04:24	----	----
					EM2210666-016	EM2210666-017	EM2210666-018	--------	--------
					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	----	----

Analytical Results

Sub-Matrix: **ASLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	----	----
				Sampling date / time	04-Jun-2022 23:56	04-Jun-2022 04:17	04-Jun-2022 04:24	----	----
					EM2210666-016	**EM2210666-017**	**EM2210666-018**	**--------**	**--------**
					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	**----**	**----**
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	%		**101**	**103**	**102**	**----**	**----**
13C8-PFOA	----	0.02	%		**95.2**	**99.8**	**103**	**----**	**----**

Analytical Results

Sub-Matrix: **DI WATER LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-021	EM2210666-022	EM2210666-023	EM2210666-024	EM2210666-025
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-021	EM2210666-022	EM2210666-023	EM2210666-024	EM2210666-025
					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	%		**91.2**	**110**	**97.7**	**96.2**	**107**
13C8-PFOA	----	0.02	%		**103**	**95.3**	**95.3**	**96.4**	**97.9**

Analytical Results

Sub-Matrix: **DI WATER LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	05-Jun-2022 00:03	05-Jun-2022 04:02	05-Jun-2022 08:10	05-Jun-2022 08:12	05-Jun-2022 12:09
					EM2210666-026	EM2210666-027	EM2210666-028	EM2210666-029	EM2210666-030
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	05-Jun-2022 00:03	05-Jun-2022 04:02	05-Jun-2022 08:10	05-Jun-2022 08:12	05-Jun-2022 12:09
					EM2210666-026	**EM2210666-027**	**EM2210666-028**	**EM2210666-029**	**EM2210666-030**
					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**	**102**	**97.8**	**87.2**	**96.1**
13C8-PFOA	----	0.02	%		**91.5**	**104**	**97.2**	**94.0**	**96.2**

Analytical Results

Sub-Matrix: **DI WATER LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	05-Jun-2022 12:11	05-Jun-2022 16:03	05-Jun-2022 16:08	05-Jun-2022 19:53	05-Jun-2022 19:53
					EM2210666-031	EM2210666-032	EM2210666-033	EM2210666-034	EM2210666-035
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	05-Jun-2022 12:11	05-Jun-2022 16:03	05-Jun-2022 16:08	05-Jun-2022 19:53	05-Jun-2022 19:53
					EM2210666-031	EM2210666-032	EM2210666-033	EM2210666-034	EM2210666-035
					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	%		**95.2**	**96.1**	**107**	**112**	**101**
13C8-PFOA	----	0.02	%		**91.5**	**98.8**	**98.5**	**98.9**	**94.7**

Analytical Results

Sub-Matrix: **DI WATER LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	----	----
				Sampling date / time	05-Jun-2022 23:56	06-Jun-2022 04:17	06-Jun-2022 04:24	----	----
					EM2210666-036	EM2210666-037	EM2210666-038	--------	--------
					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	----	----

Analytical Results

Sub-Matrix: **DI WATER LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	----	----
				Sampling date / time	05-Jun-2022 23:56	06-Jun-2022 04:17	06-Jun-2022 04:24	----	----
					EM2210666-036	EM2210666-037	EM2210666-038	--------	--------
					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	----	----
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	%		**101**	**89.5**	**101**	----	----
13C8-PFOA	----	0.02	%		**94.7**	**93.0**	**91.3**	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-001	EM2210666-002	EM2210666-003	EM2210666-004	EM2210666-005
					Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit		**7.5**	**7.5**	**8.1**	**7.5**	**7.5**
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**31.8**	**34.6**	**31.6**	**32.5**	**27.8**
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**50**	**59**	**52**	**49**	**94**
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg		**88**	**95**	**89**	**96**	**106**
Copper	7440-50-8	5	mg/kg		**45**	**42**	**45**	**41**	**60**
Lead	7439-92-1	5	mg/kg		**6**	**7**	**6**	**6**	**7**
Molybdenum	7439-98-7	5	mg/kg		<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg		**109**	**118**	**104**	**100**	**96**
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		**76**	**77**	**77**	**70**	**67**
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**	**200**	**180**	**170**	**130**
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		**6.7**	**7.4**	**8.6**	**7.7**	**7.5**
After HCl pH	----	0.1	pH Unit		**1.6**	**1.4**	**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**	**5.1**	**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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-001	EM2210666-002	EM2210666-003	EM2210666-004	EM2210666-005
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-001	EM2210666-002	EM2210666-003	EM2210666-004	EM2210666-005
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-001	EM2210666-002	EM2210666-003	EM2210666-004	EM2210666-005
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-001	EM2210666-002	EM2210666-003	EM2210666-004	EM2210666-005
					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**	72-54-8/72-55-9/50-2	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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-001	EM2210666-002	EM2210666-003	EM2210666-004	EM2210666-005
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 08:17	04-Jun-2022 08:19	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58
					EM2210666-001	EM2210666-002	EM2210666-003	EM2210666-004	EM2210666-005
					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	%		**95.2**	**105**	**102**	**98.6**	**110**
EP074S: VOC Surrogates (Ultra-Trace)									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		**100**	**95.2**	**62.9**	**89.6**	**76.2**
Toluene-D8	2037-26-5	0.1	%		**98.0**	**90.0**	**57.0**	**86.6**	**70.2**
4-Bromofluorobenzene	460-00-4	0.1	%		**111**	**104**	**72.1**	**98.6**	**88.5**
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%		**88.8**	**97.3**	**95.5**	**89.8**	**103**
2-Chlorophenol-D4	93951-73-6	0.025	%		**85.6**	**93.0**	**92.6**	**87.8**	**98.2**
2.4.6-Tribromophenol	118-79-6	0.025	%		**81.7**	**90.5**	**91.8**	**86.0**	**99.8**
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%		**88.7**	**96.9**	**97.1**	**90.7**	**104**
1.2-Dichlorobenzene-D4	2199-69-1	0.025	%		**86.2**	**93.3**	**93.2**	**88.2**	**99.2**
2-Fluorobiphenyl	321-60-8	0.025	%		**90.1**	**98.0**	**99.4**	**93.3**	**105**
Anthracene-d10	1719-06-8	0.025	%		**90.4**	**97.7**	**99.8**	**92.8**	**105**
4-Terphenyl-d14	1718-51-0	0.025	%		**93.7**	**100**	**104**	**96.1**	**108**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**91.8**	**89.4**	**91.2**	**102**	**97.4**
13C8-PFOA	----	0.0002	%		**110**	**99.0**	**102**	**90.8**	**98.6**

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 00:03	04-Jun-2022 04:02	04-Jun-2022 08:10	04-Jun-2022 08:12	04-Jun-2022 12:09
					EM2210666-006	EM2210666-007	EM2210666-008	EM2210666-009	EM2210666-010
					Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit		**7.5**	**7.6**	**7.6**	**7.5**	**7.7**
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**32.9**	**29.1**	**29.2**	**32.2**	**29.4**
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**54**	**51**	**50**	**46**	**43**
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg		**110**	**96**	**88**	**90**	**79**
Copper	7440-50-8	5	mg/kg		**49**	**43**	**42**	**40**	**37**
Lead	7439-92-1	5	mg/kg		**6**	**5**	**6**	**6**	<5
Molybdenum	7439-98-7	5	mg/kg		<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg		**108**	**115**	**110**	**113**	**118**
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		**80**	**71**	**68**	**72**	**61**
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		**170**	**160**	**170**	**160**	**190**
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		**7.3**	**7.5**	**7.5**	**8.1**	**7.9**
After HCl pH	----	0.1	pH Unit		**1.5**	**1.6**	**1.6**	**1.6**	**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		**5.1**	**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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 00:03	04-Jun-2022 04:02	04-Jun-2022 08:10	04-Jun-2022 08:12	04-Jun-2022 12:09
					EM2210666-006	EM2210666-007	EM2210666-008	EM2210666-009	EM2210666-010
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 00:03	04-Jun-2022 04:02	04-Jun-2022 08:10	04-Jun-2022 08:12	04-Jun-2022 12:09
					EM2210666-006	EM2210666-007	EM2210666-008	EM2210666-009	EM2210666-010
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 00:03	04-Jun-2022 04:02	04-Jun-2022 08:10	04-Jun-2022 08:12	04-Jun-2022 12:09
					EM2210666-006	EM2210666-007	EM2210666-008	EM2210666-009	EM2210666-010
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 00:03	04-Jun-2022 04:02	04-Jun-2022 08:10	04-Jun-2022 08:12	04-Jun-2022 12:09
					EM2210666-006	EM2210666-007	EM2210666-008	EM2210666-009	EM2210666-010
					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**	72-54-8/72-55-9/50-2	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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 00:03	04-Jun-2022 04:02	04-Jun-2022 08:10	04-Jun-2022 08:12	04-Jun-2022 12:09
					EM2210666-006	EM2210666-007	EM2210666-008	EM2210666-009	EM2210666-010
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 00:03	04-Jun-2022 04:02	04-Jun-2022 08:10	04-Jun-2022 08:12	04-Jun-2022 12:09
					EM2210666-006	EM2210666-007	EM2210666-008	EM2210666-009	EM2210666-010
					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	%		**105**	**106**	**103**	**102**	**116**
EP074S: VOC Surrogates (Ultra-Trace)									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		**62.4**	**83.4**	**86.9**	**93.5**	**75.4**
Toluene-D8	2037-26-5	0.1	%		**57.2**	**79.8**	**82.8**	**87.9**	**72.4**
4-Bromofluorobenzene	460-00-4	0.1	%		**63.3**	**91.3**	**98.3**	**98.1**	**84.3**
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%		**100**	**102**	**95.5**	**93.0**	**101**
2-Chlorophenol-D4	93951-73-6	0.025	%		**95.2**	**96.8**	**92.4**	**89.5**	**97.1**
2.4.6-Tribromophenol	118-79-6	0.025	%		**96.4**	**98.1**	**93.8**	**89.7**	**97.2**
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%		**99.7**	**102**	**97.3**	**90.7**	**100**
1.2-Dichlorobenzene-D4	2199-69-1	0.025	%		**95.7**	**96.9**	**93.6**	**90.0**	**97.5**
2-Fluorobiphenyl	321-60-8	0.025	%		**101**	**103**	**99.2**	**95.3**	**103**
Anthracene-d10	1719-06-8	0.025	%		**102**	**102**	**98.9**	**94.8**	**102**
4-Terphenyl-d14	1718-51-0	0.025	%		**104**	**104**	**100**	**97.0**	**104**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**85.1**	**90.5**	**90.9**	**88.0**	**83.8**
13C8-PFOA	----	0.0002	%		**105**	**104**	**120**	**103**	**91.4**

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 12:11	04-Jun-2022 16:03	04-Jun-2022 16:08	04-Jun-2022 19:53	04-Jun-2022 19:53
					EM2210666-011	EM2210666-012	EM2210666-013	EM2210666-014	EM2210666-015
					Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit		**7.7**	**7.9**	**7.8**	**7.8**	**7.8**
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**30.4**	**28.3**	**27.7**	**29.1**	**30.6**
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**54**	**46**	**47**	**52**	**47**
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg		**90**	**72**	**79**	**83**	**81**
Copper	7440-50-8	5	mg/kg		**40**	**36**	**38**	**41**	**41**
Lead	7439-92-1	5	mg/kg		**6**	**5**	**5**	**7**	**5**
Molybdenum	7439-98-7	5	mg/kg		<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg		**100**	**100**	**106**	**127**	**106**
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		**61**	**61**	**76**	**64**	**70**
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**	**200**	**210**	**180**	**200**
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		**8.1**	**8.6**	**8.1**	**8.2**	**7.9**
After HCl pH	----	0.1	pH Unit		**1.5**	**1.5**	**1.4**	**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**	**5.1**	**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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 12:11	04-Jun-2022 16:03	04-Jun-2022 16:08	04-Jun-2022 19:53	04-Jun-2022 19:53
					EM2210666-011	EM2210666-012	EM2210666-013	EM2210666-014	EM2210666-015
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 12:11	04-Jun-2022 16:03	04-Jun-2022 16:08	04-Jun-2022 19:53	04-Jun-2022 19:53
					EM2210666-011	EM2210666-012	EM2210666-013	EM2210666-014	EM2210666-015
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 12:11	04-Jun-2022 16:03	04-Jun-2022 16:08	04-Jun-2022 19:53	04-Jun-2022 19:53
					EM2210666-011	**EM2210666-012**	**EM2210666-013**	**EM2210666-014**	**EM2210666-015**
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 12:11	04-Jun-2022 16:03	04-Jun-2022 16:08	04-Jun-2022 19:53	04-Jun-2022 19:53
					EM2210666-011	EM2210666-012	EM2210666-013	EM2210666-014	EM2210666-015
					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**	72-54-8/72-55-9/50-2	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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 12:11	04-Jun-2022 16:03	04-Jun-2022 16:08	04-Jun-2022 19:53	04-Jun-2022 19:53
					EM2210666-011	EM2210666-012	EM2210666-013	EM2210666-014	EM2210666-015
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 12:11	04-Jun-2022 16:03	04-Jun-2022 16:08	04-Jun-2022 19:53	04-Jun-2022 19:53
					EM2210666-011	EM2210666-012	EM2210666-013	EM2210666-014	EM2210666-015
					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	%		**93.2**	**105**	**118**	**104**	**109**
EP074S: VOC Surrogates (Ultra-Trace)									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		**99.9**	**61.4**	**84.4**	**94.8**	**87.9**
Toluene-D8	2037-26-5	0.1	%		**96.5**	**59.0**	**81.0**	**91.4**	**83.4**
4-Bromofluorobenzene	460-00-4	0.1	%		**111**	**72.9**	**99.6**	**101**	**93.7**
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%		**95.8**	**94.0**	**107**	**88.8**	**100**
2-Chlorophenol-D4	93951-73-6	0.025	%		**91.7**	**88.7**	**101**	**86.7**	**97.0**
2.4.6-Tribromophenol	118-79-6	0.025	%		**91.8**	**90.0**	**102**	**86.2**	**98.2**
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%		**92.8**	**94.3**	**104**	**88.2**	**102**
1.2-Dichlorobenzene-D4	2199-69-1	0.025	%		**91.6**	**90.0**	**102**	**86.6**	**96.9**
2-Fluorobiphenyl	321-60-8	0.025	%		**96.9**	**95.0**	**108**	**92.5**	**103**
Anthracene-d10	1719-06-8	0.025	%		**96.5**	**94.7**	**107**	**92.9**	**104**
4-Terphenyl-d14	1718-51-0	0.025	%		**98.0**	**97.2**	**110**	**94.8**	**106**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**89.6**	**104**	**90.4**	**91.8**	**93.4**
13C8-PFOA	----	0.0002	%		**92.0**	**110**	**101**	**105**	**102**

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 23:56	04-Jun-2022 04:17	04-Jun-2022 04:24	04-Jun-2022 08:17	04-Jun-2022 08:19
					EM2210666-016	EM2210666-017	EM2210666-018	EM2210666-021	EM2210666-022
					Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit		**7.9**	**7.9**	**7.9**	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**26.9**	**28.0**	**24.4**	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**38**	**37**	**36**	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	----	----
Chromium	7440-47-3	5	mg/kg		**61**	**64**	**72**	----	----
Copper	7440-50-8	5	mg/kg		**80**	**35**	**33**	----	----
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		**128**	**93**	**93**	----	----
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		**148**	**59**	**61**	----	----
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**	**230**	**200**	----	----
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		**8.2**	**8.6**	**8.4**	----	----
After HCl pH	----	0.1	pH Unit		**1.5**	**1.5**	**1.5**	----	----
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		**----**	**----**	**----**	**5.7**	**8.7**
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	<0.1	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 23:56	04-Jun-2022 04:17	04-Jun-2022 04:24	04-Jun-2022 08:17	04-Jun-2022 08:19
					EM2210666-016	EM2210666-017	EM2210666-018	EM2210666-021	EM2210666-022
					Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons									
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	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 23:56	04-Jun-2022 04:17	04-Jun-2022 04:24	04-Jun-2022 08:17	04-Jun-2022 08:19
					EM2210666-016	EM2210666-017	EM2210666-018	EM2210666-021	EM2210666-022
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated)									
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	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 23:56	04-Jun-2022 04:17	04-Jun-2022 04:24	04-Jun-2022 08:17	04-Jun-2022 08:19
					EM2210666-016	EM2210666-017	EM2210666-018	EM2210666-021	EM2210666-022
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
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	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 23:56	04-Jun-2022 04:17	04-Jun-2022 04:24	04-Jun-2022 08:17	04-Jun-2022 08:19
					EM2210666-016	EM2210666-017	EM2210666-018	EM2210666-021	EM2210666-022
					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	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	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	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 23:56	04-Jun-2022 04:17	04-Jun-2022 04:24	04-Jun-2022 08:17	04-Jun-2022 08:19
					EM2210666-016	EM2210666-017	EM2210666-018	EM2210666-021	EM2210666-022
					Result	Result	Result	Result	Result
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	----	----
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									

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS	SX_OB_20220606_04_24_SS_Triplicate_ALS	SX_OB20220604_08_17_SS_Primary_ALS	SX_OB20220604_08_18_SS_Duplicate_ALS
				Sampling date / time	04-Jun-2022 23:56	04-Jun-2022 04:17	04-Jun-2022 04:24	04-Jun-2022 08:17	04-Jun-2022 08:19
					EM2210666-016	EM2210666-017	EM2210666-018	EM2210666-021	EM2210666-022
					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	----	----
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	%		**105**	**106**	**103**	----	----
EP074S: VOC Surrogates (Ultra-Trace)									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		**93.7**	**101**	**92.2**	----	----
Toluene-D8	2037-26-5	0.1	%		**89.3**	**97.9**	**87.3**	----	----
4-Bromofluorobenzene	460-00-4	0.1	%		**101**	**114**	**102**	----	----
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%		**96.0**	**97.2**	**99.6**	----	----
2-Chlorophenol-D4	93951-73-6	0.025	%		**92.3**	**94.9**	**94.8**	----	----
2.4.6-Tribromophenol	118-79-6	0.025	%		**91.9**	**93.7**	**95.2**	----	----
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%		**96.6**	**99.8**	**97.1**	----	----
1.2-Dichlorobenzene-D4	2199-69-1	0.025	%		**92.0**	**95.3**	**96.0**	----	----
2-Fluorobiphenyl	321-60-8	0.025	%		**97.3**	**100**	**101**	----	----
Anthracene-d10	1719-06-8	0.025	%		**96.5**	**99.8**	**101**	----	----
4-Terphenyl-d14	1718-51-0	0.025	%		**98.4**	**102**	**103**	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**80.4**	**86.4**	**90.2**	----	----
13C8-PFOA	----	0.0002	%		**104**	**98.6**	**104**	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB20220604_15_54_SS_Primary_ALS	SX_OB_20220604_19_52_SS_Triplicate_ALS	SX_OB_20220604_19_58_SS_Primary_ALS	SX_OB_20220605_00_03_SS_Primary_ALS	SX_OB_20220605_04_02_SS_Primary_ALS
				Sampling date / time	04-Jun-2022 15:54	04-Jun-2022 19:52	04-Jun-2022 19:58	05-Jun-2022 00:03	05-Jun-2022 04:02
					EM2210666-023	**EM2210666-024**	**EM2210666-025**	**EM2210666-026**	**EM2210666-027**
					Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit		**8.9**	**8.8**	**8.8**	**8.8**	**8.9**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SX_OB_20220605_08_10_SS_Primary_ALS	SX_OB_20220605_08_12_SS_Duplicate_ALS	SX_OB_20220605_12_09_SS_Primary_ALS	SX_OB_20220605_12_11_SS_Duplicate_ALS	SX_OB_20220605_16_03_SS_Triplicate_ALS
			Sampling date / time	05-Jun-2022 08:10	05-Jun-2022 08:12	05-Jun-2022 12:09	05-Jun-2022 12:11	05-Jun-2022 16:03
Compound	CAS Number	LOR	Unit	EM2210666-028	EM2210666-029	EM2210666-030	EM2210666-031	EM2210666-032
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	**8.8**	**8.7**	**6.5**	**8.8**	**9.4**

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220605_16_08_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Primary_ALS	SX_OB_20220605_19_53_SS_Duplicate_ALS	SX_OB_20220605_23_56_SS_Primary_ALS	SX_OB_20220606_04_17_SS_Primary_ALS
				Sampling date / time	05-Jun-2022 16:08	05-Jun-2022 19:53	05-Jun-2022 19:53	05-Jun-2022 23:56	06-Jun-2022 04:17
					EM2210666-033	**EM2210666-034**	**EM2210666-035**	**EM2210666-036**	**EM2210666-037**
					Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit		**9.5**	**8.7**	**9.1**	**9.5**	**9.8**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220606_04_24_SS_Triplicate_ALS	----	----	----	----
				Sampling date / time	06-Jun-2022 04:24	----	----	----	----
Compound	CAS Number	LOR	Unit	EM2210666-038	--------	--------	--------	--------	
				Result	----	----	----	----	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit	**9.7**	**----**	**----**	**----**	**----**	

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SX_OB_20220606_04_40_SR_Rinsate_ALS	SX_OB_20220606_04_41_SB_Blank_ALS	----	----	----
				Sampling date / time	06-Jun-2022 04:40	06-Jun-2022 04:41	----	----	----
Compound	CAS Number	LOR	Unit		EM2210666-019	EM2210666-020	--------	--------	--------
					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_20220606_04_40_SR_Rinsate_ALS	SX_OB_20220606_04_41_SB_Blank_ALS	----	----	----
				Sampling date / time	06-Jun-2022 04:40	06-Jun-2022 04:41	----	----	----
Compound	CAS Number	LOR	Unit		EM2210666-019	EM2210666-020	--------	--------	--------
					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	%		**96.4**	**91.5**	----	----	----
13C8-PFOA	----	0.02	%		**91.2**	**93.7**	----	----	----

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	: **EM2210666**	Page	: 1 of 40
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	: 06-Jun-2022
Order number	: ----	Date Analysis Commenced	: 07-Jun-2022
C-O-C number	: 20220606044423-ALS-8	Issue Date	: 14-Jun-2022
Sampler	: ES - EP Risk, HK and AV - EP Risk, WOH - Agon		
Site	: 20220606044423-ALS-8		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 38		
No. of samples analysed	: 38		

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.

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Organics, 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: 4388679)									
EM2210666-001	SX_OB20220604_08_17_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	88	83	4.8	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	109	97	11.4	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	50	48	4.6	0% - 50%
		EG005T: Copper	7440-50-8	5	mg/kg	45	37	19.5	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	6	6	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	76	65	15.3	0% - 50%
EM2210666-010	SX_OB_20220605_12_09_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	79	80	1.8	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	118	111	6.3	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	43	48	9.4	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	37	39	4.1	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	6	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	61	70	14.0	0% - 50%

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: 4388412)									
EM2210499-001	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	8.1	8.2	1.2	0% - 20%
EM2210666-007	SX_OB_20220605_04_02_SS_Primary_ALS	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: 4388413)									
EM2210666-018	SX_OB_20220606_04_24_SS_Triplicate_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.9	7.9	0.0	0% - 20%
EM2210771-010	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	11.2	11.3	0.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4388787)									
EM2210650-001	Anonymous	EA055: Moisture Content	----	0.1	%	35.1	34.8	0.7	0% - 20%
EM2210666-010	SX_OB_20220605_12_09_SS_Primary_ALS	EA055: Moisture Content	----	0.1	%	29.4	29.7	1.0	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4388680)									
EM2210666-001	SX_OB20220604_08_17_SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2210666-010	SX_OB_20220605_12_09_SS_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: 4385403)									
EM2210224-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	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: 4385404)									
EM2210666-013	SX_OB_20220605_16_08_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: 4389950)									
EM2210580-009	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EM2210313-004	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	<1	0.0	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4389952)									
EM2210666-003	SX_OB20220604_15_54_SS_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EM2210666-012	SX_OB_20220605_16_03_SS_Triplicate_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EK040T: Fluoride Total (QC Lot: 4385400)									
EM2210224-001	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	410	390	3.9	0% - 50%
EM2210617-011	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	490	410	18.7	0% - 50%
EK040T: Fluoride Total (QC Lot: 4385401)									
EM2210666-003	SX_OB20220604_15_54_SS_Primary_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	180	180	0.0	No Limit
EM2210666-012	SX_OB_20220605_16_03_SS_Triplicate_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	200	210	5.5	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: 4385361)									
EM2210499-001	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2210666-009	SX_OB_20220605_08_12_SS_Duplicate_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4384257)									
EM2210666-001	SX_OB20220604_08_17_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
EM2210666-011	SX_OB_20220605_12_11_SS_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
EP074H: Naphthalene (QC Lot: 4384257)									
EM2210666-001	SX_OB20220604_08_17_SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM2210666-011	SX_OB_20220605_12_11_SS_Duplicate_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4384257)									
EM2210666-001	SX_OB20220604_08_17_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
		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

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: 4384257) - continued									
EM2210666-001	SX_OB20220604_08_17_SS_Primary_ALS	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
EM2210666-011	SX_OB_20220605_12_11_SS_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
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4385363)									
EM2210499-001	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	<0.03	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	<0.05	<0.05	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	<0.05	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	<0.2	<0.2	0.0	No Limit
EM2210666-009	SX_OB_20220605_08_12_SS_Duplicate_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	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 (%)*
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4385363) - continued									
EM2210666-009	SX_OB_20220605_08_12_SS_Duplicate_ALS	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
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4385363)									
EM2210499-001	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	<5	<5	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	<5	0.0	No Limit
EM2210666-009	SX_OB_20220605_08_12_SS_Duplicate_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: 4385363)									
EM2210499-001	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	0.7	<0.5	32.4	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: 4385363) - continued									
EM2210499-001	Anonymous	EP075-EM: Pyrene	129-00-0	0.5	mg/kg	0.6	<0.5	19.3	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
EM2210666-009	SX_OB_20220605_08_12_SS_Duplicate_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
EP075I: Organochlorine Pesticides (QC Lot: 4385363)									
EM2210499-001	Anonymous	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	<0.03	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	<0.03	<0.03	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	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: 4385363) - continued									
EM2210499-001	Anonymous	EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	<0.03	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
EM2210666-009	SX_OB_20220605_08_12_ SS_Duplicate_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
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4384257)									
EM2210666-001	SX_OB20220604_08_17_S S_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EM2210666-011	SX_OB_20220605_12_11_ SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4385362)									
EM2210499-001	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
EM2210666-009	SX_OB_20220605_08_12_ SS_Duplicate_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	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: 4385362) - continued									
EM2210666-009	SX_OB_20220605_08_12_SS_Duplicate_ALS	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: 4384257)									
EM2210666-001	SX_OB20220604_08_17_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
EM2210666-011	SX_OB_20220605_12_11_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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4385362)									
EM2210499-001	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
EM2210666-009	SX_OB_20220605_08_12_SS_Duplicate_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: 4386758)									
EM2210666-001	SX_OB20220604_08_17_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
EM2210666-011	SX_OB_20220605_12_11_SS_Duplicate_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: 4386758)									
EM2210666-001	SX_OB20220604_08_17_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

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: 4386758) - continued									
EM2210666-001	SX_OB20220604_08_17_SS_Primary_ALS	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
EM2210666-011	SX_OB_20220605_12_11_SS_Duplicate_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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4386758)									
EM2210666-001	SX_OB20220604_08_17_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
EM2210666-011	SX_OB_20220605_12_11_SS_Duplicate_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 sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4386758) - continued									
EM2210666-011	SX_OB_20220605_12_11_SS_Duplicate_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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4386758)									
EM2210666-001	SX_OB20220604_08_17_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
EM2210666-011	SX_OB_20220605_12_11_SS_Duplicate_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: 4386758)									
EM2210666-001	SX_OB20220604_08_17_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
EM2210666-011	SX_OB_20220605_12_11_SS_Duplicate_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 sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4391245)									

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: 4391245) - continued									
EM2210580-003	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
EM2210921-001	Anonymous	EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.05	0.05	0.0	No Limit
		EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.32	0.34	4.8	0% - 20%
		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: 4392573)									
EM2210666-001	SX_OB20220604_08_17_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: 4392575)									
EM2210666-021	SX_OB20220604_08_17_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: 4394070)									

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: 4394070) - continued									
EM2210666-030	SX_OB_20220605_12_09_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
EM2210806-011	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.09	0.08	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	1.50	1.57	4.4	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: 4394071)									
EM2210666-002	SX_OB20220604_08_18_SS_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
EM2210666-016	SX_OB_20220605_23_56_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
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4391245)									
EM2210580-003	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

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: 4391245) - continued									
EM2210580-003	Anonymous	EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.10	<0.10	0.0	No Limit
EM2210921-001	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: 4392573)									
EM2210666-001	SX_OB20220604_08_17_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
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4392575)									
EM2210666-021	SX_OB20220604_08_17_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
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4394070)									

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: 4394070) - continued									
EM2210666-030	SX_OB_20220605_12_09_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
EM2210806-011	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	0.04	0.04	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	0.03	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: 4394071)									
EM2210666-002	SX_OB20220604_08_18_SS_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
EM2210666-016	SX_OB_20220605_23_56_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

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: 4394071) - continued									
EM2210666-016	SX_OB_20220605_23_56_SS_Primary_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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4391245)									
EM2210580-003	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
EM2210921-001	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: 4392573)									
EM2210666-001	SX_OB20220604_08_17_SS_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: 4392573) - continued									
EM2210666-001	SX_OB20220604_08_17_SS_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: 4392575)									
EM2210666-021	SX_OB20220604_08_17_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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4394070)									
EM2210666-030	SX_OB_20220605_12_09_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

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: 4394070) - continued									
EM2210666-030	SX_OB_20220605_12_09_SS_Primary_ALS	EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2210806-011	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
		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: 4394071)									
EM2210666-002	SX_OB20220604_08_18_SS_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
EM2210666-016	SX_OB_20220605_23_56_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

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: 4394071) - continued									
EM2210666-016	SX_OB_20220605_23_56_SS_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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4391245)									
EM2210580-003	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
EM2210921-001	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: 4392573)									
EM2210666-001	SX_OB20220604_08_17_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: 4392575)									
EM2210666-021	SX_OB20220604_08_17_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: 4394070)									

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: 4394070) - continued									
EM2210666-030	SX_OB_20220605_12_09_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
EM2210806-011	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
		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: 4394071)									
EM2210666-002	SX_OB20220604_08_18_SS_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
EM2210666-016	SX_OB_20220605_23_56_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
EP231P: PFAS Sums (QC Lot: 4391245)									
EM2210580-003	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
EM2210921-001	Anonymous	EP231X-INJ: Sum of PFAS	----	0.01	µg/L	0.37	0.39	5.3	0% - 20%
		EP231X-INJ: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.37	0.39	5.3	0% - 20%

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: 4391245) - continued									
EM2210921-001	Anonymous	EP231X-INJ: Sum of PFAS (WA DER List)	----	0.01	µg/L	0.37	0.39	5.3	0% - 20%
EP231P: PFAS Sums (QC Lot: 4392573)									
EM2210666-001	SX_OB20220604_08_17_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: 4392575)									
EM2210666-021	SX_OB20220604_08_17_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: 4394070)									
EM2210666-030	SX_OB_20220605_12_09_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
EM2210806-011	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	1.66	1.71	3.0	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	1.59	1.65	3.7	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	1.59	1.65	3.7	0% - 20%
EP231P: PFAS Sums (QC Lot: 4394071)									
EM2210666-002	SX_OB20220604_08_18_SS_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
EM2210666-016	SX_OB_20220605_23_56_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

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 Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4388679)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	94.0	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	86.3	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	101	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	91.8	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	89.3	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	87.3	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	94.5	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	95.3	70.0	130
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	128	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	73.4	70.0	130
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4390795)								
EN60-DIa-P: Final pH	----	0.1	pH Unit	6.8	----	----	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4392710)								
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.0	----	----	----	----
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4388412)								
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: 4388413)								
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	101	98.8	101
				----	7 pH Unit	100	99.3	101
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4388680)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	96.9	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4385403)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	75.4	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4385404)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	74.0	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4389950)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	81.3	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4389952)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	93.3	70.0	130
EK040T: Fluoride Total (QCLot: 4385400)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	90.4	75.2	110

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EK040T: Fluoride Total (QCLot: 4385401)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	89.6	75.2	110
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4385361)								
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	103	67.4	136
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4384257)								
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	93.8	69.2	116
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	89.1	67.7	116
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	88.4	66.6	115
EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4.2 mg/kg	86.3	65.2	112
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	89.8	69.4	111
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	87.0	68.4	110
EP074H: Naphthalene (QCLot: 4384257)								
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	94.5	72.3	114
EP074I: Volatile Halogenated Compounds (QCLot: 4384257)								
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	97.0	47.0	138
EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	95.5	57.6	125
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	92.6	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	93.6	70.3	112
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	90.7	66.6	115
EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	92.0	64.4	122
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	89.4	58.4	127
EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	102	72.9	114
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	89.5	64.7	115
EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	90.9	72.6	116
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	89.2	60.0	119
EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	88.0	71.8	116
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	89.6	66.1	116
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	90.6	39.8	128
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	89.2	70.3	113
EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	88.7	62.6	113
EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	91.4	70.8	110
EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	88.4	48.4	120
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4385363)								
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	1 mg/kg	83.3	74.5	126
EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	1 mg/kg	80.4	72.7	126
EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	1 mg/kg	81.0	73.5	132
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	1 mg/kg	82.8	72.8	128

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4385363) - continued								
EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	1 mg/kg	81.6	73.3	134
EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	1 mg/kg	79.2	72.4	128
EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	1 mg/kg	79.2	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	2 mg/kg	81.8	71.9	128
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	2 mg/kg	75.7	54.4	135
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4385363)								
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	1 mg/kg	84.3	71.5	130
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	1 mg/kg	83.6	73.4	129
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	2 mg/kg	83.3	74.3	129
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	1 mg/kg	78.3	70.9	133
EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	1 mg/kg	82.1	71.8	132
EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	60.5	41.0	156
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	82.7	65.3	134
EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	74.2	43.6	128
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	78.0	62.0	128
EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	74.2	34.5	137
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4385363)								
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	1 mg/kg	85.4	73.0	131
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1 mg/kg	85.0	76.3	130
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1 mg/kg	83.9	72.0	135
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	1 mg/kg	84.9	74.4	131
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1 mg/kg	86.6	73.3	130
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	1 mg/kg	85.0	78.4	127
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1 mg/kg	85.6	75.3	132
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	1 mg/kg	85.1	75.4	130
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1 mg/kg	85.6	69.6	133
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	1 mg/kg	88.9	75.0	133
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	2 mg/kg	88.8	75.8	133
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1 mg/kg	87.3	65.1	130
EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1 mg/kg	89.7	72.1	134
EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	1 mg/kg	89.5	72.9	135
EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	1 mg/kg	90.2	71.3	134
EP075I: Organochlorine Pesticides (QCLot: 4385363)								
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	1 mg/kg	85.4	71.0	129
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	1 mg/kg	85.8	74.8	126
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	1 mg/kg	87.9	75.7	130

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075I: Organochlorine Pesticides (QCLot: 4385363) - continued								
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	1 mg/kg	86.3	70.8	130
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	1 mg/kg	86.6	76.5	134
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	1 mg/kg	84.8	75.5	131
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	1 mg/kg	85.7	76.8	130
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	1 mg/kg	85.7	73.6	130
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	1 mg/kg	85.9	75.0	133
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	1 mg/kg	85.7	75.3	131
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	1 mg/kg	86.4	69.4	134
EP075-EM: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	1 mg/kg	98.8	71.0	132
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	1 mg/kg	87.9	78.0	133
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	1 mg/kg	75.2	69.0	143
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	1 mg/kg	86.2	55.7	145
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	1 mg/kg	88.1	71.4	135
EP075-EM: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	1 mg/kg	86.1	74.8	134
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	1 mg/kg	85.6	70.2	135
EP075-EM: 4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	1 mg/kg	84.7	77.7	133
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	1 mg/kg	85.6	63.6	135
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4384257)								
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	100	61.1	119
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4385362)								
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	670 mg/kg	91.5	74.4	129
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	2860 mg/kg	101	81.0	123
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1490 mg/kg	94.1	81.8	121
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	97.4	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4384257)								
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	97.9	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: 4385362)								
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1000 mg/kg	97.3	75.4	132
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	3770 mg/kg	104	80.8	120
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	91.4	73.3	136
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	102	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4386758)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	103	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	105	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	68.8	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	86.8	70.0	132

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4386758) - continued								
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	85.8	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	86.9	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4386758)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	91.6	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.3	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.1	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.0	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.6	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.6	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.7	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.7	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	75.3	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	105	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4386758)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.3	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	116	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	88.2	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	83.1	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	103	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.2	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	103	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4386758)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	95.4	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	94.4	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	98.1	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	82.6	70.0	130
EP231P: PFAS Sums (QCLot: 4386758)								
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 Blank (MB) Report	Laboratory Control Spike (LCS) Report: Spike	Spike Recovery (%)	Acceptable Limits (%)	

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4391245)								
EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.444 µg/L	95.7	72.0	130
EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.47 µg/L	86.0	71.0	127
EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.457 µg/L	88.0	68.0	131
EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.477 µg/L	98.9	69.0	134
EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.465 µg/L	96.9	65.0	140
EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.482 µg/L	89.6	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4392573)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	107	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	96.6	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	105	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	112	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
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4392575)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	115	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
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	106	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	118	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	98.7	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	92.5	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4394070)								
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	100	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	98.2	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	104	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	114	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	107	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4394071)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	107	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	102	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	99.1	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	106	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
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4391245)								
EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.10	2.5 µg/L	90.7	73.0	129
EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.5 µg/L	88.3	72.0	129
EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.5 µg/L	93.6	72.0	129

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4391245) - continued								
EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.5 µg/L	98.2	72.0	130
EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.5 µg/L	92.8	71.0	133
EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.5 µg/L	91.4	69.0	130
EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.5 µg/L	94.2	71.0	129
EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.5 µg/L	92.4	69.0	133
EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.5 µg/L	95.5	72.0	134
EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.5 µg/L	86.7	65.0	144
EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	1.25 µg/L	95.9	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4392573)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	104	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	100.0	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	112	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	97.2	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	99.8	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	92.3	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	109	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	96.9	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	111	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4392575)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	106	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	105	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	118	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	106	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	112	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	108	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	99.3	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	110	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	94.7	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: 4394070)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	104	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	95.4	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	109	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	91.9	71.0	133

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4394070) - continued								
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	106	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	104	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	106	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	116	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	97.9	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: 4394071)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	114	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	115	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	106	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	108	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	99.0	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	113	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	91.8	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	97.3	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	128	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4391245)								
EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.5 µg/L	97.7	67.0	137
EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	1.25 µg/L	98.5	68.0	141
EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	1.25 µg/L	88.1	70.0	130
EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	1.25 µg/L	96.9	70.0	130
EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	1.25 µg/L	90.2	70.0	130
EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.5 µg/L	109	65.0	136
EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.5 µg/L	100	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4392573)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	100	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	113	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	123	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	98.3	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	101	70.0	130

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4392573) - continued								
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	101	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4392575)								
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	129	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	109	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	97.0	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	113	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	110	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4394070)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	114	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	125	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	105	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	97.2	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	132	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	124	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4394071)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	104	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	132	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	114	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	100	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	116	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

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4394071) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	102	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4391245)								
EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.469 µg/L	104	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	115	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	106	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	73.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4392573)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	114	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	116	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	117	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	76.0	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4392575)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	118	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	110	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	123	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	82.1	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4394070)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	117	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	111	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	113	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	72.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4394071)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	109	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	117	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	118	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	104	70.0	130
EP231P: PFAS Sums (QCLot: 4391245)								
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: 4392573)								
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: 4392575)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231P: PFAS Sums (QCLot: 4392575) - continued								
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: 4394070)								
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: 4394071)								
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	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4388679)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	112	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	91.5	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	101	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	98.0	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	89.6	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	105	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	87.8	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4388680)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	102	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4385403)							
EM2210224-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	61.7	58.0	114
EM2210224-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	72.7	58.0	114
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4385404)							
EM2210666-014	SX_OB_20220605_19_53_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	85.7	58.0	114
EM2210666-014	SX_OB_20220605_19_53_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	94.8	58.0	114

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4389950)							
EM2210313-005	Anonymous	EK026SF: Total Cyanide	57-12-5	20 mg/kg	95.6	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4389952)							
EM2210666-004	SX_OB_20220604_19_52_SS_Triplicate_ALS	EK026SF: Total Cyanide	57-12-5	20 mg/kg	92.7	70.0	130
EK040T: Fluoride Total (QCLot: 4385400)							
EM2210224-002	Anonymous	EK040T: Fluoride	16984-48-8	400 mg/kg	70.6	70.0	130
EK040T: Fluoride Total (QCLot: 4385401)							
EM2210666-004	SX_OB_20220604_19_52_SS_Triplicate_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	70.3	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4385361)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	107	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4384257)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	75.0	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	75.3	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4384257)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	2 mg/kg	60.8	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	66.9	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	69.0	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4385363)							
EM2210645-011	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	94.6	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	94.7	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	85.2	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4385363)							
EM2210645-011	Anonymous	EP075-EM: Phenol	108-95-2	3 mg/kg	94.4	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	89.5	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4385363)							
EM2210645-011	Anonymous	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	92.0	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	96.5	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4384257)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	73.4	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4385362)							
EM2210666-001	SX_OB20220604_08_17_SS_Primary_ALS	EP071-EM: C10 - C14 Fraction	----	670 mg/kg	91.1	71.3	126
		EP071-EM: C15 - C28 Fraction	----	2860 mg/kg	100	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1490 mg/kg	93.7	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5020 mg/kg	96.8	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4384257)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	71.6	39.9	109

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 Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4385362)							
EM2210666-001	SX_OB20220604_08_17_SS_Primary_ALS	EP071-EM: >C10 - C16 Fraction	----	1000 mg/kg	96.6	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	3770 mg/kg	104	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	250 mg/kg	91.3	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5020 mg/kg	101	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4386758)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	100	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	# 70.4	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	69.4	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	107	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	97.2	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	97.7	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4386758)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	98.3	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	95.8	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	102	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	99.4	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	110	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	129	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	90.2	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	90.0	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	85.4	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	67.6	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	117	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4386758)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	105	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	121	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	102	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	89.0	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	105	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	98.6	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	111	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4386758)							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	98.5	62.0	145

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4386758) - continued							
EM2210666-002	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	107	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	109	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	80.7	70.0	130

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4391245)							
EM2210580-004	Anonymous	EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.444 µg/L	88.6	72.0	130
		EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.47 µg/L	110	71.0	127
		EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.457 µg/L	101	68.0	131
		EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.477 µg/L	109	69.0	134
		EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.465 µg/L	90.5	65.0	140
		EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.482 µg/L	99.5	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4392573)							
EM2210666-003	SX_OB20220604_15_54_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	118	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	83.7	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	101	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	128	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	111	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4392575)							
EM2210666-022	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	109	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	87.0	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	98.9	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	108	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	92.9	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	78.2	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4394070)							
EM2210666-031	SX_OB_20220605_12_11_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	118	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	108	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	119	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	103	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	108	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4394071)							
EM2210666-010	SX_OB_20220605_12_09_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	108	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	89.6	71.0	127

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: 4394071) - continued							
EM2210666-010	SX_OB_20220605_12_09_SS_Primary_ALS	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	102	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	108	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	105	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4391245)							
EM2210580-004	Anonymous	EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	2.5 µg/L	90.0	73.0	129
		EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.5 µg/L	90.6	72.0	129
		EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.5 µg/L	88.6	72.0	129
		EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.5 µg/L	106	72.0	130
		EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.5 µg/L	88.9	71.0	133
		EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.5 µg/L	102	69.0	130
		EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.5 µg/L	95.7	71.0	129
		EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.5 µg/L	102	69.0	133
		EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.5 µg/L	105	72.0	134
		EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.5 µg/L	85.0	65.0	144
		EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	1.25 µg/L	89.9	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4392573)							
EM2210666-003	SX_OB20220604_15_54_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	106	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	95.5	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	110	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	123	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	104	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	111	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	112	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	103	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	117	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	121	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4392575)							
EM2210666-022	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	96.6	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	93.2	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	108	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	108	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	96.6	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	103	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	85.5	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	90.9	72.0	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
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4392575) - continued							
EM2210666-022	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	66.7	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	74.1	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4394070)							
EM2210666-031	SX_OB_20220605_12_11_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	102	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	94.8	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	106	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	106	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	93.3	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	108	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	106	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	100	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	87.0	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	110	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4394071)							
EM2210666-010	SX_OB_20220605_12_09_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	# 158	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	113	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	110	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	105	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	111	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	99.0	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	98.1	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	91.0	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	120	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4391245)							
EM2210580-004	Anonymous	EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.5 µg/L	97.3	67.0	137
		EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	1.25 µg/L	106	68.0	141
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	1.25 µg/L	104	70.0	130
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	1.25 µg/L	91.0	70.0	130
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	1.25 µg/L	85.6	70.0	130
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.5 µg/L	117	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: 4391245) - continued							
EM2210580-004	Anonymous	EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.5 µg/L	106	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4392573)							
EM2210666-003	SX_OB20220604_15_54_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	110	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	135	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	117	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	109	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	101	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	104	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	114	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4392575)							
EM2210666-022	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	93.2	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	80.0	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	77.5	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	80.9	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	75.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	69.1	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	69.2	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4394070)							
EM2210666-031	SX_OB_20220605_12_11_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	103	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	97.9	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	93.0	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	94.8	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	99.0	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: 4394070) - continued							
EM2210666-031	SX_OB_20220605_12_11_SS_Duplicate_ALS	EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	119	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4394071)							
EM2210666-010	SX_OB_20220605_12_09_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	110	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	138	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	115	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	96.0	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	118	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	94.5	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4391245)							
EM2210580-004	Anonymous	EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.469 µg/L	103	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	99.1	67.0	138
		EP231X-INJ: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.483 µg/L	71.4	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4392573)							
EM2210666-003	SX_OB20220604_15_54_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	110	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	124	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	121	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	80.6	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4392575)							
EM2210666-022	SX_OB20220604_08_18_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	112	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	116	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	# 69.2	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4394070)							
EM2210666-031	SX_OB_20220605_12_11_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	112	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	115	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	116	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	71.6	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4394071)							
EM2210666-010	SX_OB_20220605_12_09_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	111	63.0	143

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: 4394071) - continued							
EM2210666-010	SX_OB_20220605_12_09_SS_Primary_ALS	EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	113	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	117	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	95.2	70.0	130

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2210666**	Page	: 1 of 20
Client	: **AGON ENVIRONMENTAL PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Telephone	: +61-3-8549 9600
Project	: JC0927	Date Samples Received	: 06-Jun-2022
Site	: 20220606044423-ALS-8	Issue Date	: 14-Jun-2022
Sampler	: ES - EP Risk, HK and AV - EP Risk, WOH - Agon	No. of samples received	: 38
Order number	: ----	No. of samples analysed	: 38

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: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2210666--002	SX_OB20220604_08_18_SS_I	**Perfluoropentane sulfonic acid (PFPeS)**	2706-91-4	70.4 %	73.0-123%	**Recovery less than lower data quality objective**

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	EM2210666--010	SX_OB_20220605_12_09_SS	**Perfluorobutanoic acid (PFBA)**	375-22-4	158 %	73.0-129%	**Recovery greater than upper data quality objective**
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2210666--022	SX_OB20220604_08_18_SS_I	**10:2 Fluorotelomer sulfonic acid (10:2 FTS)**	120226-60-0	69.2 %	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)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**09-Jun-2022**	11-Jun-2022	✓	**09-Jun-2022**	09-Jun-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_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
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**----**	----	----	**09-Jun-2022**	18-Jun-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_ALS							
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**09-Jun-2022**	01-Dec-2022	✓	**09-Jun-2022**	01-Dec-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_ALS							
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**09-Jun-2022**	02-Jul-2022	✓	**09-Jun-2022**	02-Jul-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_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
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**08-Jun-2022**	02-Jul-2022	✓	**09-Jun-2022**	15-Jun-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_ALS							
EK026SF: Total CN by Segmented Flow Analyser								
Soil Glass Jar - Unpreserved (EK026SF)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**09-Jun-2022**	18-Jun-2022	✓	**10-Jun-2022**	23-Jun-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_ALS							
EK040T: Fluoride Total								
Soil Glass Jar - Unpreserved (EK040T)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**08-Jun-2022**	02-Jul-2022	✓	**14-Jun-2022**	02-Jul-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_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
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS	**04-Jun-2022**	**09-Jun-2022**	01-Dec-2022	✓	**----**	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**10-Jun-2022**	01-Dec-2022	✓	**----**	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-Dla-P) SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS	**04-Jun-2022**	**09-Jun-2022**	01-Dec-2022	✓	**----**	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-Dla-P) SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS	**05-Jun-2022**	**09-Jun-2022**	02-Dec-2022	✓	**----**	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-Dla-P) SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS	**05-Jun-2022**	**10-Jun-2022**	03-Dec-2022	✓	**----**	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-Dla-P) SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**06-Jun-2022**	**10-Jun-2022**	03-Dec-2022	✓	**----**	----	----
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**08-Jun-2022**	18-Jun-2022	✓	**08-Jun-2022**	18-Jul-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_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**07-Jun-2022**	11-Jun-2022	✓	**08-Jun-2022**	11-Jun-2022	✓
EP074H: Naphthalene							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**07-Jun-2022**	11-Jun-2022	✓	**08-Jun-2022**	11-Jun-2022	✓
EP074I: Volatile Halogenated Compounds							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**07-Jun-2022**	11-Jun-2022	✓	**08-Jun-2022**	11-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 (Halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**08-Jun-2022**	18-Jun-2022	✓	**08-Jun-2022**	18-Jul-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_ALS							
EP075A: Phenolic Compounds (Non-halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**08-Jun-2022**	18-Jun-2022	✓	**08-Jun-2022**	18-Jul-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_ALS							
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB20220604_08_17_SS_Primary_ALS,	SX_OB20220604_08_18_SS_Duplicate_ALS,	**04-Jun-2022**	**08-Jun-2022**	18-Jun-2022	✓	**08-Jun-2022**	18-Jul-2022	✓
SX_OB20220604_15_54_SS_Primary_ALS,	SX_OB_20220604_19_52_SS_Triplicate_ALS,							
SX_OB_20220604_19_58_SS_Primary_ALS,	SX_OB_20220605_00_03_SS_Primary_ALS,							
SX_OB_20220605_04_02_SS_Primary_ALS,	SX_OB_20220605_08_10_SS_Primary_ALS,							
SX_OB_20220605_08_12_SS_Duplicate_ALS,	SX_OB_20220605_12_09_SS_Primary_ALS,							
SX_OB_20220605_12_11_SS_Duplicate_ALS,	SX_OB_20220605_16_03_SS_Triplicate_ALS,							
SX_OB_20220605_16_08_SS_Primary_ALS,	SX_OB_20220605_19_53_SS_Primary_ALS,							
SX_OB_20220605_19_53_SS_Duplicate_ALS,	SX_OB_20220605_23_56_SS_Primary_ALS,							
SX_OB_20220606_04_17_SS_Primary_ALS,	SX_OB_20220606_04_24_SS_Triplicate_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
EP075l: Organochlorine Pesticides							
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**08-Jun-2022**	18-Jun-2022	✓	**08-Jun-2022**	18-Jul-2022	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**07-Jun-2022**	11-Jun-2022	✓	**08-Jun-2022**	11-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**08-Jun-2022**	18-Jun-2022	✓	**08-Jun-2022**	18-Jul-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_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**07-Jun-2022**	11-Jun-2022	✓	**08-Jun-2022**	11-Jun-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**08-Jun-2022**	18-Jun-2022	✓	**08-Jun-2022**	18-Jul-2022	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**09-Jun-2022**	01-Dec-2022	✓	**09-Jun-2022**	19-Jul-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**09-Jun-2022**	01-Dec-2022	✓	**09-Jun-2022**	19-Jul-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_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**09-Jun-2022**	01-Dec-2022	✓	**09-Jun-2022**	19-Jul-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**09-Jun-2022**	01-Dec-2022	✓	**09-Jun-2022**	19-Jul-2022	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**04-Jun-2022**	**09-Jun-2022**	01-Dec-2022	✓	**09-Jun-2022**	19-Jul-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-INJ)							
SX_OB_20220606_04_40_SR_Rinsate_ALS, SX_OB_20220606_04_41_SB_Blank_ALS	**06-Jun-2022**	**10-Jun-2022**	03-Dec-2022	✓	**10-Jun-2022**	03-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS	**09-Jun-2022**	**10-Jun-2022**	06-Dec-2022	✓	**10-Jun-2022**	06-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**10-Jun-2022**	**11-Jun-2022**	07-Dec-2022	✓	**11-Jun-2022**	07-Dec-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-INJ)							
SX_OB_20220606_04_40_SR_Rinsate_ALS, SX_OB_20220606_04_41_SB_Blank_ALS	**06-Jun-2022**	**10-Jun-2022**	03-Dec-2022	✓	**10-Jun-2022**	03-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS	**09-Jun-2022**	**10-Jun-2022**	06-Dec-2022	✓	**10-Jun-2022**	06-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**10-Jun-2022**	**11-Jun-2022**	07-Dec-2022	✓	**11-Jun-2022**	07-Dec-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-INJ)							
SX_OB_20220606_04_40_SR_Rinsate_ALS, SX_OB_20220606_04_41_SB_Blank_ALS	**06-Jun-2022**	**10-Jun-2022**	03-Dec-2022	✓	**10-Jun-2022**	03-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS	**09-Jun-2022**	**10-Jun-2022**	06-Dec-2022	✓	**10-Jun-2022**	06-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**10-Jun-2022**	**11-Jun-2022**	07-Dec-2022	✓	**11-Jun-2022**	07-Dec-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-INJ)							
SX_OB_20220606_04_40_SR_Rinsate_ALS, SX_OB_20220606_04_41_SB_Blank_ALS	**06-Jun-2022**	**10-Jun-2022**	03-Dec-2022	✓	**10-Jun-2022**	03-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS	**09-Jun-2022**	**10-Jun-2022**	06-Dec-2022	✓	**10-Jun-2022**	06-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**10-Jun-2022**	**11-Jun-2022**	07-Dec-2022	✓	**11-Jun-2022**	07-Dec-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-INJ)							
SX_OB_20220606_04_40_SR_Rinsate_ALS, SX_OB_20220606_04_41_SB_Blank_ALS	**06-Jun-2022**	**10-Jun-2022**	03-Dec-2022	✓	**10-Jun-2022**	03-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS, SX_OB20220604_08_17_SS_Primary_ALS, SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB20220604_15_54_SS_Primary_ALS, SX_OB_20220604_19_52_SS_Triplicate_ALS, SX_OB_20220604_19_58_SS_Primary_ALS, SX_OB_20220605_00_03_SS_Primary_ALS, SX_OB_20220605_04_02_SS_Primary_ALS, SX_OB_20220605_08_10_SS_Primary_ALS, SX_OB_20220605_08_12_SS_Duplicate_ALS	**09-Jun-2022**	**10-Jun-2022**	06-Dec-2022	✓	**10-Jun-2022**	06-Dec-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB20220604_08_18_SS_Duplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS, SX_OB_20220605_12_09_SS_Primary_ALS, SX_OB_20220605_12_11_SS_Duplicate_ALS, SX_OB_20220605_16_03_SS_Triplicate_ALS, SX_OB_20220605_16_08_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Primary_ALS, SX_OB_20220605_19_53_SS_Duplicate_ALS, SX_OB_20220605_23_56_SS_Primary_ALS, SX_OB_20220606_04_17_SS_Primary_ALS, SX_OB_20220606_04_24_SS_Triplicate_ALS	**10-Jun-2022**	**11-Jun-2022**	07-Dec-2022	✓	**11-Jun-2022**	07-Dec-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		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	3	25	**12.00**	**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	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	4	32	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	4	40	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	4	35	**11.43**	**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	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	25	**16.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	4	32	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	35	**5.71**	**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	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Deionised Water Leach - Plastic Leaching Vessel	EN60-Dla-P	2	18	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	25	**8.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	35	**5.71**	**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	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	18	**5.56**	**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		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	25	**16.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	35	**5.71**	**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	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	18	**5.56**	**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		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	6	47	**12.77**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	47	**8.51**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	47	**8.51**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	47	**8.51**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	14	**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 CaCl2 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 CaCl2 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 (SnCl2) (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 SnCl2 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-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 CaCl2 extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl2 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, Na2SO4 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.

Preparation Methods	Method	Matrix	Method Descriptions
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.