

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B03.0220220602162948_02	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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1. Motherhub Summary

Source TBM/Bin at Pivot	1	Source Geological Domain	5
Approx. Source Tunnel Chainage From	709	Approx. Source Tunnel Chainage To	722
Approx. Rings From	298	Approx. Rings To	304
Foaming Agent	TamSoil 287AC	Water Source	Potable (City West Water)
For BSF Holding Bay No:	B03.02	Start of Filling From (Time / date)	23/05/2022
Tonnes Put in Holding Bay No:	7430.03	Finish of Filling (Time / Date)	24/05/2022
Classified Volume (LCM)	4000	Spoil Classification Decision	NPIW Containment
Sampling Ratio (samples per LCM)	1 : 222.22	Approx. Bank Cubic Meters (BCM)	2484.75

2. Agon Spoil Classification Decision

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

3. Agon Spoil Classification Assessment

3.1 Applicable Samples

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

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

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Table 3.1 - Applicable Sample ID's

Table 3.1 - 1 Applicable Sample ID's

Applicable Spoil Sample ID's		
SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_11_49_SS_Primary_EUF	SX_OB_20220523_20_08_SS_Primary_EUF
SX_OB_20220523_00_18_SS_Primary_EUF	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_OB_20220523_20_09_SS_Duplicate_EUF
SX_OB_20220523_04_13_SS_Primary_ALS	SX_OB_20220523_15_58_SS_Primary_EUF	SX_OB_20220523_20_10_SS_Triplicate_ALS
SX_OB_20220523_04_18_SS_Primary_EUF	SX_OB_20220523_15_59_SS_Duplicate_EUF	SX_OB_20220523_20_15_SS_Primary_ALS
SX_OB_20220523_08_03_SS_Primary_EUF	SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220524_00_11_SS_Primary_EUF
SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS
Total Sample Numbers	18	Ratio Acceptable
Primary Sample Numbers	14	Yes
Classified Volume (LCM)	4000 m ³	
Volume: Sample Number Ratio (Samples per LCM)	1 : 222.22	

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3.2 Data Quality Compliance with SAQP

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

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

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

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3.3 Selection of the Spoil Sample Testing Regime

Table 3.3 - 1 Selection of the Spoil Sample Testing Regime

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

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3.4 Spoil Compliance with SAQP Criteria for Containment Cell

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

Need for IWRG 621.1 or 655.1 Testing	
A. Is Spoil in this Holding Bay from a Zone of Exception or Anomalous and required testing for IWRG 621.1?	No
B. Is IWRG 621.1 testing required for spoil in this Holding Bay, because prior to this Holding Bay, less than 10 Holding Bays of spoil have been tested from this Domain?	Yes
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?	No
D. Is testing pursuant to IWRG 655.1 required for spoil in this Holding Bay, because the spoil comes from Exception Zone 3 (See SAQP Section 5.4)?	No
E. Has spoil testing for IWRG 621.1 Parameters been triggered by results of spoil water tests for previous Holding Bays of spoil from this geological domain?	No
Outcome from IWRG 621.1 testing (if needed)	
F. If Yes to one or more Questions A, B, C or E, (and not NOC< applicable background concentrations) then do test results for IWRG 621.1 (see Table 3.4-2) prohibit NPIW Containment as a spoil Classification Outcome? If no to all of Questions A, B, C and E, then respond NA to this question.	No
Outcome from IWRG 655.1 testing (if needed)	
G. If Yes to Questions D, then do test results for IWRG 655.1 (see Table 3.4-3) permit NPIW Containment as a spoil Classification Outcome? If no to Question D, respond NA to this question	NA
Outcome from PFAS Testing	
H. Do test results for PFAS (see Table 3.4-4 below) permit NPIW Containment as a spoil Classification Outcome?	Yes
<i>If Yes to either or both of Question E or F, then Spoil is Not Suitable for Containment; Go to Section 3.5. Otherwise, it is Suitable for Containment</i>	
Notes:	
1. Criteria taken from EPA Grandfathered Classifications for TBM Spoil (2020/476 (SO 9042848)), and from the EPA approved EMP for Hi Quality's Containment Cell	

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

IWRG 621.1 Exceedance Test Results												
Chemical	Unit	LOR	No. of samples	No. of primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW Containment	Comment
Arsenic	mg/kg	2	18*	14	1 : 222.22	18	37	59.89	66.25	91	20	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Copper	mg/kg	5	18*	14	1 : 222.22	18	45	64.17	72.54	130	100	NPIW-Containment
Nickel	mg/kg	5	18*	14	1 : 222.22	18	114	151.9	167.1	260	60	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Fluoride	mg/kg	100	18*	14	1 : 222.22	17	<100	194.1	250.6	700	450	NPIW-Containment

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

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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*	14	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFOA	ug/kg	5	18*	14	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFHxS	ug/kg	5	18*	14	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
ASLP (pH= 5) PFAS Concentrations											
PFOA	ug/L	0.01	18*	14	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	18*	14	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment
ASLP (pH= 7) PFAS Concentrations											
PFOA	ug/L	0.01	18*	14	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	18*	14	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment

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

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3.5 Waste Classification for Spoil Not Suitable for Containment Cell

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

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

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

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

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

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

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

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

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Table 3.5 - 3 PFAS Parameter Concentrations and Waste Classifications

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

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4. Comments and Limitations

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

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	<p style="text-align: center;">iv. Enriched nickel concentrations also corresponded with enriched copper (Two soil and rock) and zinc (all units) indicating that the nickel is likely associated with geochemical enrichment rather than added contamination. Golder therefore concluded that the nickel is likely associated with geochemical enrichment rather than added contamination.</p> <p>The Golder study found that based on review of the depth, site history and the geochemical association of elements, the reported elevated concentrations of arsenic and nickel are considered representative of geogenic conditions and are not expected to be associated with contamination.</p>
2.	Test result outcomes can lead to two classification possibilities; however, the classification decision follows the preference of the waste management hierarchy.
3.	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.
4.	Loose Cubic metres (LCM) to mass (tonnes) conversion ratio used is 1 LCM:1.6 tonnes
5.	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.
6.	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.
7.	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.
8.	This report should be read in full.

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5. Attachments

ATTACHMENT A: TABULATED RESULTS

ATTACHMENT B: 95% UCL AVE CALCULATIONS

ATTACHMENT C: LABORATORY CERTIFICATES

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ATTACHMENT A: TABULATED RESULTS

	Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	1	5	5	1	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	2,000	400	20,000		2,000	6,000	300
EPA Victoria IWRG621 Category C Leached Upper Limits							
EPA Victoria IWRG621 Category C Upper Limits	500	100	5,000		500	1,500	75
EPA Victoria IWRG621 Fill Upper Limits	20	3	100		1	300	1

Location Code	Field ID	Sample Code	Date	Lab Report Number	Lab Name	Sample Type	Parent Sample	Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS	EM2209472019	23/05/2022	EM2209472	ALSE-Melbourne	Normal		80	<1	59	106	<1.0	<5	<0.1
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS	EM2209472037	22/05/2022	EM2209472	ALSE-Melbourne	Normal								
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF	M22-My0053755	23/05/2022	890748	Eurofins Environment ANZ	Normal		70	<1	62	150	<1	5.9	<0.1
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF	M22-My0053774	23/05/2022	890748	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF	M22-My0053793	23/05/2022	890748	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS	EM2209472020	23/05/2022	EM2209472	ALSE-Melbourne	Normal		53	<1	45	101	<1.0	<5	<0.1
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS	EM2209472038	22/05/2022	EM2209472	ALSE-Melbourne	Normal								
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF	M22-My0053756	23/05/2022	890748	Eurofins Environment ANZ	Normal		57	<1	57	130	<1	5.7	<0.1
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF	M22-My0053775	23/05/2022	890748	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF	M22-My0053794	23/05/2022	890748	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF	M22-My0056789	23/05/2022	891110	Eurofins Environment ANZ	Normal		53	<1	49	130	<1	5.2	<0.1
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF	M22-My0056803	23/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF	M22-My0056815	23/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS	EM2209548003	23/05/2022	EM2209548	ALSE-Melbourne	Normal		73	<1	51	102	<1.0	<5	<0.1
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS	EM2209548015	23/05/2022	EM2209548	ALSE-Melbourne	Normal								
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF	M22-My0056790	23/05/2022	891110	Eurofins Environment ANZ	Normal		43	<1	52	120	<1	<5	<0.1
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF	M22-My0056804	23/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF	M22-My0056816	23/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_12_02_SS_Primary_ALS	EM2209548004	23/05/2022	EM2209548	ALSE-Melbourne	Normal		37	<1	55	100	<1.0	<5	<0.1
B03.02	SX_OB_20220523_12_02_SS_Primary_ALS	EM2209548016	23/05/2022	EM2209548	ALSE-Melbourne	Normal								
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	M22-My0056792	23/05/2022	891110	Eurofins Environment ANZ	Normal		51	<1	54	130	<1	<5	<0.1
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	M22-My0056806	23/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	M22-My0056818	23/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	M22-My0056793	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056792	40	<1	52	110	<1	<5	<0.1
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	M22-My0056807	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056806							
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	M22-My0056819	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056818							
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	EM2209548006	23/05/2022	EM2209548	ALSE-Melbourne	Interlab_D	M22-My0056792	91	<1	81	119	<1.0	6	<0.1
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	EM2209548018	23/05/2022	EM2209548	ALSE-Melbourne	Interlab_D	M22-My0056818							
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS	EM2209548007	23/05/2022	EM2209548	ALSE-Melbourne	Normal		54	<1	57	98	<1.0	<5	<0.1
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS	EM2209548019	23/05/2022	EM2209548	ALSE-Melbourne	Normal								
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	M22-My0056796	23/05/2022	891110	Eurofins Environment ANZ	Normal		62	<1	82	160	<1	<5	<0.1
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	M22-My0056808	23/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	M22-My0056820	23/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	M22-My0056797	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056796	66	<1	72	160	<1	<5	<0.1
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	M22-My0056809	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056808							
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	M22-My0056821	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056820							
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	EM2209548008	23/05/2022	EM2209548	ALSE-Melbourne	Interlab_D	M22-My0056796	55	<1	67	105	<1.0	<5	<0.1
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	EM2209548020	23/05/2022	EM2209548	ALSE-Melbourne	Interlab_D	M22-My0056820							
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS	EM2209548009	23/05/2022	EM2209548	ALSE-Melbourne	Normal		47	<1	60	109	<1.0	<5	<0.1
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS	EM2209548021	23/05/2022	EM2209548	ALSE-Melbourne	Normal								
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	M22-My0056799	24/05/2022	891110	Eurofins Environment ANZ	Normal		58	<1	130	150	<1	<5	<0.1
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	M22-My0056811	24/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	M22-My0056823	24/05/2022	891110	Eurofins Environment ANZ	Normal								
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS	EM2209548011	24/05/2022	EM2209548	ALSE-Melbourne	Normal		88	<1	70	138	<1.0	<5	<0.1
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS	EM2209548023	24/05/2022	EM2209548	ALSE-Melbourne	Normal								

	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	PAH													
							PAHs (Vic EPA List)	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene
	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	5	5	5	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
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold																				
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold																				
EPA Victoria IWRG621 Category B Leached Upper Limits																				
EPA Victoria IWRG621 Category B Upper Limits	4,000	12,000	200	720		140,000	400									20				
EPA Victoria IWRG621 Category C Leached Upper Limits																				
EPA Victoria IWRG621 Category C Upper Limits	1,000	3,000	50	180	500	35,000	100									5				
EPA Victoria IWRG621 Fill Upper Limits	40	60	10	10	50	200	20									1				

Location Code	Field ID	Molybdenum	Nickel	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	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	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS	<5	116	<5	<2	<10	75	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS																					
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF	<5	170	<5	<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	
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS	<5	114	<5	<2	<10	74	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS																					
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF	<5	150	<5	<2	<10	100			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF	<5	120	<5	<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	
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																					
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																					
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS	<5	116	<5	<2	<10	78	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS																					
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF	<5	140	<5	<2	<10	86			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																					
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																					
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS	<5	127	<5	<2	<10	88	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS																					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<5	140	<5	<2	<10	98			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<5	140	<5	<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	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<5	148	<5	<2	<10	99	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS																					
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS	<5	134	<5	<2	<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS																					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<5	210	<5	<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	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<5	190	<5	<2	<10	130			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<5	157	<5	<2	<10	104	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																					
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS	<5	142	<5	<2	<10	104	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS																					
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	<5	260	<5	<2	<10	200			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																					
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																					
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS	<5	160	<5	<2	<10	106	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS																					

	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	BTEX					TRH						
									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
	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	0.1	0.1	0.1	0.1	0.2	0.3	20	20	50	50	100	100
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold																				
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold																				
EPA Victoria IWRG621 Category B Leached Upper Limits																				
EPA Victoria IWRG621 Category B Upper Limits								400	16											
EPA Victoria IWRG621 Category C Leached Upper Limits																				
EPA Victoria IWRG621 Category C Upper Limits								100	4											
EPA Victoria IWRG621 Fill Upper Limits								20	1											

Location Code	Field ID	Dibenz(a,h)anthracene	Fluoranthene	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	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS																					
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS																					
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																					
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																					
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS																					
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS																					
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																					
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																					
B03.02	SX_OB_20220523_12_02_SS_Primary_ALS	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_12_02_SS_Primary_ALS																					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS																					
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS																					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																					
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS	<0.5	<0.5	<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	
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS																					
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	<0.5	<0.5	<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	
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																					
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																					
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS	<0.5	<0.5	<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	
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS																					

	TPH						Organochlorine Pesti															
	C10-C40 (Sum of total)	C6-C9	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		
	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	20	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	0.05	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		2,600				40,000			4.8				50								16	
EPA Victoria IWRG621 Category C Leached Upper Limits																						
EPA Victoria IWRG621 Category C Upper Limits		650				10,000			1.2				50								4	
EPA Victoria IWRG621 Fill Upper Limits		100				1,000																

Location Code	Field ID	C10-C40 (Sum of total)	C6-C9	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	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS	<50	<20	<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	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS																					
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF	<100	<20	<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	
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS	<50	<20	<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	
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS																					
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF	<100	<20	<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	
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																					
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF	<100	<20	<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	
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																					
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																					
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS	<50	<20	<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	
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS																					
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF	<100	<20	<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	
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																					
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																					
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS	<50	<20	<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	
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS																					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<100	<20	<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	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<100	<20	<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	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<50	<20	<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	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS																					
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS	<50	<20	<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	
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS																					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<100	<20	<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	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<100	<20	<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	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																					
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<50	<20	<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	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																					
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS	<50	<20	<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	
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS																					
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	<100	<20	<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	
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																					
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																					
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS	<50	<20	<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	
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS																					

	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	p-BHC	m-BHC	o-BHC	p-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVIC	Other organochlorine pesticides EPAVIC	p-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol	Pentachlorophenol
	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	0.03	0.03	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
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold																				
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold																				
EPA Victoria IWRG621 Category B Leached Upper Limits																				
EPA Victoria IWRG621 Category B Upper Limits				4.8									50							
EPA Victoria IWRG621 Category C Leached Upper Limits																				
EPA Victoria IWRG621 Category C Upper Limits				1.2									10							
EPA Victoria IWRG621 Fill Upper Limits												1								

Location Code	Field ID	<0.03	<0.03	<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	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS	<0.03	<0.03	<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	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS																				
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF			<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	
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																				
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS	<0.03	<0.03	<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	
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS																				
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF			<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	
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																				
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																				
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF			<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	
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																				
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																				
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS	<0.03	<0.03	<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	
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS																				
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF			<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	
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																				
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																				
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS	<0.03	<0.03	<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	
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS																				
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF			<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	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																				
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																				
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF			<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	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<0.03	<0.03	<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	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS																				
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS	<0.03	<0.03	<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	
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS																				
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF			<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	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																				
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																				
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF			<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	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<0.03	<0.03	<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	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																				
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS	<0.03	<0.03	<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	
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS																				
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF			<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	
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																				
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																				
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS	<0.03	<0.03	<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	
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS																				

	Phenols																		10:2 Fluorotelomer sulfonic acid (10:2 FTS)		
	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVic	Phenols (non-halogenated) EPAVic	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol	2,4-Dinitrophenol	3&4-Methylphenol (m&p-creso)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)			
	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/L
EQL	0.05	5	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	
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold																					
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold																					
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold																					
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold																					
EPA Victoria IWRG621 Category B Leached Upper Limits																					
EPA Victoria IWRG621 Category B Upper Limits							320	2,200													
EPA Victoria IWRG621 Category C Leached Upper Limits																					
EPA Victoria IWRG621 Category C Upper Limits							10	560													
EPA Victoria IWRG621 Fill Upper Limits							1	60													

Location Code	Field ID	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVic	Phenols (non-halogenated) EPAVic	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol	2,4-Dinitrophenol	3&4-Methylphenol (m&p-creso)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS																				<0.00005	
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS																				<0.00005	
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS																				<0.00005	
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS																				<0.00005	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				<0.00001	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				<0.00001	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS																				<0.00005	
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS																				<0.00005	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																				<0.00001	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																				<0.00001	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																				<0.00005	
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS																				<0.00005	
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005	
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																				<0.00001	
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050	
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS																				<0.00005	

	Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*		Sum of PFAS		1,1-dichloroethane	1,1-dichloroethene	1,1,2-trichloroethane	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
	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg														
EQL	0.00001	0.005	0.00001	0.005	0.00001	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
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold																				
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold																				
EPA Victoria IWRG621 Category B Leached Upper Limits																				
EPA Victoria IWRG621 Category B Upper Limits																				
EPA Victoria IWRG621 Category C Leached Upper Limits																				
EPA Victoria IWRG621 Category C Upper Limits																				
EPA Victoria IWRG621 Fill Upper Limits																				

Location Code	Field ID																			
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS					<0.00010	<0.0500		<0.50		<0.50			<0.50		<0.50	<0.50	<0.50	<0.50	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS					<0.00001														
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF		<0.005		<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
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS					<0.00010	<0.0500		<0.50					<0.50		<0.50	<0.50	<0.50	<0.50	
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS					<0.00001														
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF		<0.005		<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
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF		<0.005		<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
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS					<0.00010	<0.0500		<0.50					<0.50		<0.50	<0.50	<0.50	<0.50	
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS					<0.00010														
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF		<0.005		<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
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS					<0.00010	<0.0500		<0.50					<0.50		<0.50	<0.50	<0.50	<0.50	
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS					<0.00010														
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF		<0.005		<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
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF		<0.005		<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
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS					<0.00010	<0.0500		<0.50					<0.50		<0.50	<0.50	<0.50	<0.50	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS					<0.00010														
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS					<0.00010	<0.0500		<0.50					<0.50		<0.50	<0.50	<0.50	<0.50	
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS					<0.00010														
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF		<0.005		<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
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF		<0.005		<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
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS					<0.00010	<0.0500		<0.50					<0.50		<0.50	<0.50	<0.50	<0.50	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS					<0.00010														
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS					<0.00010	<0.0500		<0.50					<0.50		<0.50	<0.50	<0.50	<0.50	
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS					<0.00010														
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF		<0.005		<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
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	<0.00001		<0.00001		<0.0001														
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS					<0.00010	<0.0500		<0.50					<0.50		<0.50	<0.50	<0.50	<0.50	
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS					<0.00010														

	Chlorinated Hydrocarbons																NA			
	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	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	UG/KG	Moisture Content %	Arochlor 1232 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	0.05	1	0.1	
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold																				
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold																				
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold																				
EPA Victoria IWRG621 Category B Leached Upper Limits																				
EPA Victoria IWRG621 Category B Upper Limits			11	50						4.8										
EPA Victoria IWRG621 Category C Leached Upper Limits																				
EPA Victoria IWRG621 Category C Upper Limits			2.8	10						1.2										
EPA Victoria IWRG621 Fill Upper Limits						1														

Location Code	Field ID																			
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<10.0	38.4	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS																<0.01			
B03.02	SX_OB_20220523_00_18_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		<10		<0.1
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<10.0	33.6	
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS																<0.01			
B03.02	SX_OB_20220523_04_18_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		<10		<0.1
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_08_03_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		<10		<0.1
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<10.0	33.9	
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS																<0.05			
B03.02	SX_OB_20220523_11_49_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		<10		<0.1
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<10.0	33.5	
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS																<0.05			
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																	<0.05		
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																	<0.05		
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<10.0	35.2	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS																<0.05			
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<10.0	33.8	
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS																<0.05			
B03.02	SX_OB_20220523_20_08_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		<10		<0.1
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220523_20_09_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		<10		<0.1
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																	<0.05		
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																	<0.05		
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<10.0	34.2	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																<0.05			
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<10.0	34.9	
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS																<0.05			
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<10		<0.1
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																	<0.05		
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<10.0	34.5	
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS																<0.05			

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

Location Code	Field ID																			
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS						<0.1	1.6	5.1	8.2	5.0		120		<5	<0.50	<0.50		<0.50	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS								9.5											
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.0	180	34	<5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF								5.0		5.0									
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF								8.5		5.9									
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS						<0.1	1.6	5.1	8.3	5.0		150		<5	<0.50	<0.50		<0.50	
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS								9.1											
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.0	<100	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF								5.0		5.0									
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF								8.5		5.9									
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.7	200	39	<5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF								5.1		5.1									
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF								8.6		6.4									
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS						<0.1	1.5	5.1	9.3	5.0		140		<5	<0.50	<0.50		<0.50	
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS								9.1											
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.6	200	34	<5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF								5.1		5.1									
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF								8.9		6.4									
B03.02	SX_OB_20220523_12_02_SS_Primary_ALS						<0.1	1.4	5.2	8.4	5.0		140		<5	<0.50	<0.50		<0.50	
B03.02	SX_OB_20220523_12_02_SS_Primary_ALS								9.1											
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.4	140	35	<5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF								5.1		5.1									
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF								8.5		6.4									
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.1	180	35	<5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF								5.1		5.1									
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF								8.6		6.4									
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS						<0.1	1.4	5.1	9.2	5.0		180		<5	<0.50	<0.50		<0.50	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS								9.2											
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS						<0.1	1.4	5.1	8.6	5.0		140		<5	<0.50	<0.50		<0.50	
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS								9.1											
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.5	110	32	<5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF								5.1		5.1									
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF								8.6		6.4									
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.6	180	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF								5.2		5.1									
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF								9.0		6.4									
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS						<0.1	1.4	5.1	8.6	5.0		160		<5	<0.50	<0.50		<0.50	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS								9.3											
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS						<0.1	1.4	5.1	8.5	5.0		170		<5	<0.50	<0.50		<0.50	
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS								9.4											
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.6	700	30	<5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF								5.1		5.1									
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF								8.9		6.4									
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS						<0.1	1.3	5.1	8.7	5.0		210		<5	<0.50	<0.50		<0.50	
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS								9.7											

	Halogenated Hydrocarbons							MAH						Solvents					SPOCAS
	4-chlorotoluene	Chlorobenzene	Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	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	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	0.1
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								240											
EPA Victoria IWRG621 Category C Leached Upper Limits																			
EPA Victoria IWRG621 Category C Upper Limits								70											
EPA Victoria IWRG621 Fill Upper Limits								7											

Location Code	Field ID	4-chlorotoluene	Chlorobenzene	Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)	
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS		<0.50							<0.5		<0.5									7.8
B03.02	SX_OB_20220523_00_13_SS_Primary_ALS																				
B03.02	SX_OB_20220523_00_18_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	
B03.02	SX_OB_20220523_00_18_SS_Primary_EUF																				
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS		<0.50							<0.5		<0.5									7.4
B03.02	SX_OB_20220523_04_13_SS_Primary_ALS																				
B03.02	SX_OB_20220523_04_18_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	
B03.02	SX_OB_20220523_04_18_SS_Primary_EUF																				
B03.02	SX_OB_20220523_08_03_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	
B03.02	SX_OB_20220523_08_03_SS_Primary_EUF																				
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS		<0.50							<0.5		<0.5									7.7
B03.02	SX_OB_20220523_08_09_SS_Primary_ALS																				
B03.02	SX_OB_20220523_11_49_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	
B03.02	SX_OB_20220523_11_49_SS_Primary_EUF																				
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS		<0.50							<0.5		<0.5									7.7
B03.02	SX_OB_20220523_12_02_SS_PRIMARY_ALS																				
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																				
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS		<0.50							<0.5		<0.5									7.7
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS																				
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS		<0.50							<0.5		<0.5									7.8
B03.02	SX_OB_20220523_16_03_SS_Primary_ALS																				
B03.02	SX_OB_20220523_20_08_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	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																				
B03.02	SX_OB_20220523_20_08_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	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																				
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS		<0.50							<0.5		<0.5									7.7
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																				
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS		<0.50							<0.5		<0.5									7.8
B03.02	SX_OB_20220523_20_15_SS_Primary_ALS																				
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF																				
B03.02	SX_OB_20220524_00_11_SS_Primary_EUF		<0.50							<0.5		<0.5									7.8
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS																				
B03.02	SX_OB_20220524_00_15_SS_Primary_ALS																				

							Metals											
							Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL							2	1	5	5	1	5	0.1	5	5	5	5	2
Location Code	Field ID	Date	Lab Report Number	Lab Name	Sample Type	Parent Sample												
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal		42	<1	49	110	<1	<5	<0.1	<5	160	<5	<2	
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF	21/05/2022	890748	Eurofins Environment ANZ	Field_D	M22-My0053742	40	<1	61	140	<1	<5	<0.1	<5	190	<5	<2	
RPD							5	0	22	24	0	0	0	0	17	0	0	
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal		42	<1	49	110	<1	<5	<0.1	<5	160	<5	<2	
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Interlab_D	M22-My0053742	44	<1	66	133	<1.0	<5	<0.1	<5	202	<5	<2	
RPD							5	0	30	19	0	0	0	0	23	0	0	
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal													
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF	21/05/2022	890748	Eurofins Environment ANZ	Field_D	M22-My0053761												
RPD																		
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal													
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF	21/05/2022	890748	Eurofins Environment ANZ	Field_D	M22-My0053780												
RPD																		
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal													
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Interlab_D	M22-My0053780												
RPD																		
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal		61	<1	83	160	<1	<5	<0.1	<5	240	<5	<2	
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF	21/05/2022	890748	Eurofins Environment ANZ	Field_D	M22-My0053745	31	<1	83	160	<1	<5	<0.1	<5	240	<5	<2	
RPD							65	0	0	0	0	0	0	0	0	0	0	
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal		61	<1	83	160	<1	<5	<0.1	<5	240	<5	<2	
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Interlab_D	M22-My0053745	28	<1	63	113	1.2	<5	<0.1	<5	161	<5	<2	
RPD							74	0	27	34	18	0	0	0	39	0	0	
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal													
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF	21/05/2022	890748	Eurofins Environment ANZ	Field_D	M22-My0053764												
RPD																		
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal													
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF	21/05/2022	890748	Eurofins Environment ANZ	Field_D	M22-My0053783												
RPD																		
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	21/05/2022	890748	Eurofins Environment ANZ	Normal													
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Interlab_D	M22-My0053783												
RPD																		
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Normal		19	<1	68	118	<1.0	<5	<0.1	<5	188	<5	<2	
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Field_D	EM2209472001	20	<1	64	119	1.0	<5	<0.1	<5	169	<5	<2	
RPD							5	0	6	1	0	0	0	0	11	0	0	
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Normal		19	<1	68	118	<1.0	<5	<0.1	<5	188	<5	<2	
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF	21/05/2022	890748	Eurofins Environment ANZ	Interlab_D	EM2209472001	35	<1	63	130	<1	<5	<0.1	<5	190	<5	<2	
RPD							59	0	8	10	0	0	0	0	1	0	0	
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Normal		19	<1	68	118	<1.0	<5	<0.1	<5	188	<5	<2	
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF	21/05/2022	890748	Eurofins Environment ANZ	Interlab_D	EM2209472001												
RPD																		
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Normal													
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Field_D	EM2209472021												
RPD																		
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	21/05/2022	EM2209472	ALSE-Melbourne	Normal													
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF	21/05/2022	890748	Eurofins Environment ANZ	Interlab_D	EM2209472021												
RPD																		
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	22/05/2022	890748	Eurofins Environment ANZ	Normal		20	<1	55	120	<1	<5	<0.1	<5	160	<5	<2	
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF	22/05/2022	890748	Eurofins Environment ANZ	Field_D	M22-My0053749	22	<1	56	130	<1	<5	<0.1	<5	160	<5	<2	
RPD							10	0	2	8	0	0	0	0	0	0	0	
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	22/05/2022	890748	Eurofins Environment ANZ	Normal		20	<1	55	120	<1	<5	<0.1	<5	160	<5	<2	
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS	22/05/2022	EM2209472	ALSE-Melbourne	Interlab_D	M22-My0053749	22	1	72	118	1.7	<5	0.1	<5	185	<5	<2	
RPD							10	0	27	2	52	0	0	0	14	0	0	
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	22/05/2022	890748	Eurofins Environment ANZ	Normal													
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF	22/05/2022	890748	Eurofins Environment ANZ	Field_D	M22-My0053768												
RPD																		
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	22/05/2022	890748	Eurofins Environment ANZ	Normal													
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF	22/05/2022	890748	Eurofins Environment ANZ	Field_D	M22-My0053787												
RPD																		
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	22/05/2022	890748	Eurofins Environment ANZ	Normal													
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS	22/05/2022	EM2209472	ALSE-Melbourne	Interlab_D	M22-My0053787												
RPD																		
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	22/05/2022	EM2209472	ALSE-Melbourne	Normal		73	<1	60	92	<1.0	<5	0.1	<5	135	<5	<2	
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS	22/05/2022	EM2209472	ALSE-Melbourne	Field_D	EM2209472016	61	<1	56	105	1.0	<5	0.1	<5	138	<5	<2	

							Metals										
							Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RPD							18	0	7	13	0	0	0	0	2	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	22/05/2022	EM2209472	ALSE-Melbourne	Normal		73	<1	60	92	<1.0	<5	0.1	<5	135	<5	<2
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	22/05/2022	890748	Eurofins Environment ANZ	Interlab_D	EM2209472016	140	<1	56	220	1.1	60	<0.1	<5	120	<5	<2
RPD							63	0	7	82	10	169	0	0	12	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	22/05/2022	EM2209472	ALSE-Melbourne	Normal		73	<1	60	92	<1.0	<5	0.1	<5	135	<5	<2
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	22/05/2022	890748	Eurofins Environment ANZ	Interlab_D	EM2209472016											
RPD																	
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	22/05/2022	EM2209472	ALSE-Melbourne	Normal												
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS	22/05/2022	EM2209472	ALSE-Melbourne	Field_D	EM2209472034											
RPD																	
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	22/05/2022	EM2209472	ALSE-Melbourne	Normal												
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	22/05/2022	890748	Eurofins Environment ANZ	Interlab_D	EM2209472034											
RPD																	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal		51	<1	54	130	<1	<5	<0.1	<5	140	<5	<2
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056792	40	<1	52	110	<1	<5	<0.1	<5	140	<5	<2
RPD							24	0	4	17	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal		51	<1	54	130	<1	<5	<0.1	<5	140	<5	<2
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Interlab_D	M22-My0056792	91	<1	81	119	<1.0	6	<0.1	<5	148	<5	<2
RPD							56	0	40	9	0	18	0	0	6	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal												
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056806											
RPD																	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal												
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056818											
RPD																	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal												
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Interlab_D	M22-My0056818											
RPD																	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal		62	<1	82	160	<1	<5	<0.1	<5	210	<5	<2
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056796	66	<1	72	160	<1	<5	<0.1	<5	190	<5	<2
RPD							6	0	13	0	0	0	0	0	10	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal		62	<1	82	160	<1	<5	<0.1	<5	210	<5	<2
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Interlab_D	M22-My0056796	55	<1	67	105	<1.0	<5	<0.1	<5	157	<5	<2
RPD							12	0	20	42	0	0	0	0	29	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal												
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056808											
RPD																	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal												
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	23/05/2022	891110	Eurofins Environment ANZ	Field_D	M22-My0056820											
RPD																	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	23/05/2022	891110	Eurofins Environment ANZ	Normal												
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Interlab_D	M22-My0056820											
RPD																	
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Normal		17	<1	61	115	<1.0	<5	<0.1	<5	180	<5	<2
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Field_D	EM2209548001	21	<1	65	124	<1.0	<5	<0.1	<5	177	<5	<2
RPD							21	0	6	8	0	0	0	0	2	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Normal		17	<1	61	115	<1.0	<5	<0.1	<5	180	<5	<2
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	23/05/2022	891110	Eurofins Environment ANZ	Interlab_D	EM2209548001	17	<1	53	120	<1	<5	<0.1	<5	160	<5	<2
RPD							0	0	14	4	0	0	0	0	12	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Normal		17	<1	61	115	<1.0	<5	<0.1	<5	180	<5	<2
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	23/05/2022	891110	Eurofins Environment ANZ	Interlab_D	EM2209548001											
RPD																	
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Normal												
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Field_D	EM2209548013											
RPD																	
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	23/05/2022	EM2209548	ALSE-Melbourne	Normal												
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	23/05/2022	891110	Eurofins Environment ANZ	Interlab_D	EM2209548013											
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																				
		Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene
EQL		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
		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	0.5	0.5
Location Code	Field ID																					
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<10	92			<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	<0.5	<0.5
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF	<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	<0.5	<0.5
RPD		0	26			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<10	92			<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	<0.5	<0.5
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS	<10	121	<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	<0.5	<0.5	<0.5	<0.5
RPD		0	27			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																					
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																					
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																					
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS																					
RPD																						
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<10	130			<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	<0.5	<0.5
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF	<10	130			<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	<0.5	<0.5
RPD		0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<10	130			<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	<0.5	<0.5
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS	<10	85	<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	<0.5	<0.5	<0.5	<0.5
RPD		0	42			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																					
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																					
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS																					
RPD																						
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<10	107	<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	<0.5	<0.5	<0.5	<0.5
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	<10	96	<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	<0.5	<0.5	<0.5	<0.5
RPD		0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<10	107	<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	<0.5	<0.5	<0.5	<0.5
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF	<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	<0.5	<0.5
RPD		0	11			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<10	107	<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	<0.5	<0.5	<0.5	<0.5
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																					
RPD																						
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																					
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS																					
RPD																						
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																					
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																					
RPD																						
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<10	92			<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	<0.5	<0.5
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF	<10	100			<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	<0.5	<0.5
RPD		0	8			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<10	92			<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	<0.5	<0.5
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS	<10	114	<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	<0.5	<0.5	<0.5	<0.5
RPD		0	21			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																					
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																					
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																					
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS																					
RPD																						
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<10	104	<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	<0.5	<0.5	<0.5	<0.5
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS	<10	99	<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	<0.5	<0.5	<0.5	<0.5

		PAH																				
		Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+h)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene	Benzo(b+h)fluoranthene	Benzo(e,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene
		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
RPD		0	5	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<10	104	<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	<0.5	<0.5
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	<10	72			<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	<0.5	<0.5
RPD		0	36			0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<10	104	<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	<0.5	<0.5
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																					
RPD																						
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																					
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS																					
RPD																						
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																					
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																					
RPD																						
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<10	98			<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	<0.5	<0.5
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<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	<0.5	<0.5
RPD		0	12			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<10	98			<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	<0.5	<0.5
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<10	99	<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	<0.5	<0.5
RPD		0	1			0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
RPD																						
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
RPD																						
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<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	<0.5	<0.5
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<10	130			<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	<0.5	<0.5
RPD		0	14			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<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	<0.5	<0.5
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<10	104	<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	<0.5	<0.5
RPD		0	36			0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																					
RPD																						
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																					
RPD																						
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																					
RPD																						
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<10	97	<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	<0.5	<0.5
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS	<10	102	<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	<0.5	<0.5	<0.5	<0.5
RPD		0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<10	97	<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	<0.5	<0.5
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	<10	94			<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	<0.5	<0.5
RPD		0	3			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<10	97	<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	<0.5	<0.5
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																					
RPD																						
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																					
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS																					
RPD																						
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																					
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																					
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 m)
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laborat

		BTEX								TRH							TPH					
		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	C29-C36	C10-C36 (Sum of total)
EQL		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
		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	50	50
Location Code	Field ID																					
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<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	<50	<50
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF	<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	<50	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<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	<50	<50
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS	<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	<100	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																					
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																					
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																					
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS																					
RPD																						
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<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	<50	<50
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF	<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	<50	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<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	<50	<50
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS	<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	<100	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																					
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																					
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																					
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS																					
RPD																						
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<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	<100	<50
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	<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	<100	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<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	<100	<50
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF	<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	<50	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<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	<100	<50
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																					
RPD																						
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																					
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS																					
RPD																						
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																					
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																					
RPD																						
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<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	<50	<50
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF	<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	<50	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<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	<50	<50
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS	<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	<100	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																					
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																					
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																					
RPD																						
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																					
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS																					
RPD																						
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<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	<100	<50
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS	<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	<100	<50

		BTEX								TRH							TPH				
		Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylyene (o)	Xylyene (m & p)	Xylyene 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	C29-C36
		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
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<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	<100
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	<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	<50
RPD		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<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	<100
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																				
RPD																					
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																				
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS																				
RPD																					
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																				
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																				
RPD																					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<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	<50
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<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	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<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	<50
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<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	<100
RPD		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																				
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				
RPD																					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																				
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				
RPD																					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																				
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																				
RPD																					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<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	<50
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<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	<50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<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	<50
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<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	<100
RPD		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																				
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																				
RPD																					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																				
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																				
RPD																					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																				
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																				
RPD																					
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<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	<100
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS	<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	<100
RPD		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<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	<100
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	<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	<50
RPD		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<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	<100
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																				
RPD																					
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																				
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS																				
RPD																					
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																				
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																				
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 m)
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laborat

		Phenols																					
		4-BHC	γ-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVIC	Other organochlorine pesticides EPAVIC	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol	Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVIC	Phenols (non-halogenated) EPAVIC	
		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	mg/kg
EQL		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	1	20	
Location Code	Field ID																						
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<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			
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF	<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			
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<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			
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<0.05	<5		<0.03	<0.5	<20	<1.00	<20	
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																						
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																						
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																						
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS																						
RPD																							
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<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			
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF	<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			
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<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			
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<0.05	<5		<0.03	<0.5	<20	<1.00	<20	
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																						
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																						
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																						
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS																						
RPD																							
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03	<0.5	<20	<1.00	<20	
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03	<0.5	<20	<1.00	<20	
RPD		0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03	<0.5	<20	<1.00	<20	
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF	<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			
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03	<0.5	<20	<1.00	<20	
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																						
RPD																							
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																						
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS																						
RPD																							
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																						
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																						
RPD																							
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF	<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			
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<0.05	<5		<0.03	<0.5	<20	<1.00	<20	
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																						
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																						
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																						
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS																						
RPD																							
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03	<0.5	<20	<1.00	<20	
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03	<0.5	<20	<1.00	<20	

																		Phenols					
		g-BHC	g-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVc	Other organochlorine pesticides EPAVc	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol	Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPAVc	Phenols (non-halogenated) EPAVc	
		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	mg/kg
RPD		0	0	0		0	0	0	0	0	0	0	0	0	0	0		0		0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	<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			
RPD		0	0	0		0	0	0	0	0	0	0	0	0		0				0			
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																						
RPD																							
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																						
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS																						
RPD																							
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																						
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																						
RPD																							
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0			
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.5	<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	
RPD		0	0	0		0	0	0	0	0	0	0	0	0		0				0			
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																						
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																						
RPD																							
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																						
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																						
RPD																							
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<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			
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<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			
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0			
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<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			
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<0.05	<0.05	<0.05	<0.5	<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	
RPD		0	0	0		0	0	0	0	0	0	0	0	0		0				0			
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																						
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																						
RPD																							
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																						
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																						
RPD																							
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																						
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																						
RPD																							
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	
RPD		0	0	0		0	0	0	0	0	0	0	0	0		0				0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	<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			
RPD		0	0	0		0	0	0	0	0	0	0	0	0		0				0			
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<0.05	<0.05	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																						
RPD																							
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																						
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS																						
RPD																							
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																						
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																						
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 m).

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

		2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol	2,4-Dinitrophenol	3,4,4-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 sulfonamide (NEFOSA)	N-ethyl-					
		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					
RPD		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0					
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<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	<0.0050	<0.00005
D02.02	SX_OB_20220522_15_48_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		<0.005	
RPD		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<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	<0.0050	<0.00005
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
RPD												0	0	0	0	0	0	0	0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS											<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00002
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS											<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00002
RPD												0	0	0	0	0	0	0	0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS											<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00002
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
RPD												0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_15_58_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		<0.005	
B03.02	SX_OB_20220523_15_59_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		<0.005	
RPD		0	0	0	0	0	0	0	0	0	0		0		0		0		0		0	
B03.02	SX_OB_20220523_15_58_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		<0.005	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<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	<0.0050	<0.00005
RPD		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
RPD												0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS											<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD												0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_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		<0.005	
B03.02	SX_OB_20220523_20_09_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		<0.005	
RPD		0	0	0	0	0	0	0	0	0	0		0		0		0		0		0	
B03.02	SX_OB_20220523_20_08_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		<0.005	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<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	<0.0050	<0.00005
RPD		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
RPD												0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
RPD												0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS											<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD												0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<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	<0.0050	<0.00005
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS	<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	<0.0050	<0.00005
RPD		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<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	<0.0050	<0.00005
D03.02	SX_IB_20220523_07_59_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		<0.005	
RPD		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<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	<0.0050	<0.00005
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
RPD												0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS											<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS											<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD												0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS											<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF											<0.00001		<0.00001		<0.00005		<0.00001		<0.00005		<0.00005
RPD												0	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 QA/QC Profile settings (Acceptable RPDs for each EQL mu

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

		Perfluoroacetic acid (NEFOSAA)	N-ethylperfluorooctanesulfonamide (NEFOSE)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-Methylperfluorooctanesulfonamideethanol (N-MeFOSE)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDA)	Perfluorodecanesulfonic acid (PFDS)	Perfluoroheptanoic acid (PFHpA)
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
EQL		0.01	0.00005	0.005	0.00005	0.005	0.00002	0.01	0.00005	0.005	0.00005	0.005
Location Code	Field ID											
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD			0		0		0		0		0	
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD			0		0		0		0		0	
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00002	
RPD			0		0		0		0		0	
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD			0		0		0		0		0	
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD			0		0		0		0		0	
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00002	
RPD			0		0		0		0		0	
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
RPD		0		0		0		0		0		0
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD		0		0		0		0		0		0
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD			0		0		0		0		0	
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00002	
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00002	
RPD			0		0		0		0		0	
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00002	
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD			0		0		0		0		0	
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD			0		0		0		0		0	
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD			0		0		0		0		0	
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00002	
RPD			0		0		0		0		0	
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050

		Perfluorooctanoic acid (NEFOSAA)	N-ethylperfluorooctanesulfonamide (NEFOSE)	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)	Perfluorodecane sulfonic acid (PFDS)	Perfluoroheptanoic acid (PFHpA)
		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	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD		0		0		0		0		0		0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00002	
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00002	
RPD		0		0		0		0		0		0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS		<0.00005		<0.00005		<0.00002		<0.00005		<0.00002	
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD		0		0		0		0		0		0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
RPD		0		0		0		0		0		0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00002	
RPD		0		0		0		0		0		0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD		0		0		0		0		0		0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
RPD		0		0		0		0		0		0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00002	
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0050
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00002	
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00002	
RPD		0		0		0		0		0		0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS		<0.00005		<0.00005		<0.00005		<0.00005		<0.00002	
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001	
RPD		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 m)
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laborat

		PFOS/PFOA																						
		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 (PPFS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic 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	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	0.00002	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001
Location Code	Field ID																							
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD			0		0		0		0		0		0		0		0		0		0		0	

ID	Sample ID	PFTDA	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	1,2-dichloropropane	1,3-dichloropropane
			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	mg/kg
RPD			0	0	0	0	0	0	0	0						
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS		<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.0050			<0.00010	<0.0500	<0.50	<0.50
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF		<0.005		<0.005		<0.005		<0.005	<0.005			<0.005	<0.05	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0			0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS		<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.0050			<0.00010	<0.0500	<0.50	<0.50
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF			<0.00001		<0.00001		<0.00001		<0.00001			<0.00001			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS			<0.00002		<0.00001		<0.00001		<0.00001			<0.00001			
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS			<0.00002		<0.00001		<0.00001		<0.00001			<0.00001			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS			<0.00002		<0.00001		<0.00001		<0.00001			<0.00001			
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005	<0.005			<0.005	<0.05	<0.5	<0.5
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF		<0.005		<0.005		<0.005		<0.005	<0.005			<0.005	<0.05	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005	<0.005			<0.005	<0.05	<0.5	<0.5
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS		<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.0050			<0.00010	<0.0500	<0.50	<0.50
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF			<0.00002		<0.00001		<0.00001	<0.00001	<0.00001			<0.00010			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005	<0.005			<0.005	<0.05	<0.5	<0.5
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF		<0.005		<0.005		<0.005		<0.005	<0.005			<0.005	<0.05	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF		<0.005		<0.005		<0.005		<0.005	<0.005			<0.005	<0.05	<0.5	<0.5
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS		<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.0050			<0.00010	<0.0500	<0.50	<0.50
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS			<0.00002		<0.00001		<0.00001	<0.00001	<0.00001			<0.00010			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS		<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.0050			<0.00010	<0.0500	<0.50	<0.50
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS		<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.0050			<0.00010	<0.0500	<0.50	<0.50
RPD			0	0	0	0	0	0	0	0			0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS		<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.0050			<0.00010	<0.0500	<0.50	<0.50
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF		<0.005		<0.005		<0.005		<0.005	<0.005			<0.005	<0.05	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0			0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS		<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.0050			<0.00010	<0.0500	<0.50	<0.50
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS			<0.00002		<0.00001		<0.00001	<0.00001	<0.00001			<0.00010			
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS			<0.00002		<0.00001		<0.00001	<0.00001	<0.00001			<0.00010			
RPD			0	0	0	0	0	0	0	0			0	0	0	0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS			<0.00002		<0.00001		<0.00001	<0.00001	<0.00001			<0.00010			
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF			<0.00001		<0.00001		<0.00001	<0.00001	<0.00001			<0.00001			
RPD			0	0	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 m)
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laborat

		Chlorinated Hydrocarbons																					
		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 EPAVc	Trichloroethene	Chlorinated hydrocarbons EPAVc	cis-1,2-dichloroethene	1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	
		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	
Location Code	Field ID																						
D03.02	SX_IB_20220521_16_05_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	
D03.02	SX_IB_20220521_16_07_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	
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_16_05_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	
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		
RPD			0		0		0		0		0		0		0		0		0		0		
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																						
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																						
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																						
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS																						
RPD																							
D03.02	SX_IB_20220521_20_13_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	
D03.02	SX_IB_20220521_20_15_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	
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220521_20_13_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	
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		
RPD			0		0		0		0		0		0		0		0		0		0		
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																						
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																						
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																						
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS																						
RPD																							
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		
RPD			0		0		0		0		0		0		0		0		0		0		
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		
D04.02	SX_IB_20220521_08_11_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	
RPD			0		0		0		0		0		0		0		0		0		0		
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																						
RPD																							
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																						
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS																						
RPD																							
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																						
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																						
RPD																							
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D03.02	SX_IB_20220522_08_12_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	
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		
RPD			0		0		0		0		0		0		0		0		0		0		
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																						
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																						
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																						
RPD																							
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																						
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS																						
RPD																							
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		

		Chlorinated Hydrocarbons																				
		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 EPAVc	Trichloroethene	Chlorinated hydrocarbons EPAVc	cis-1,2-dichloroethene	1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane
		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
RPD		0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D02.02	SX_OB_20220522_15_48_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
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																					
RPD																						
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																					
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS																					
RPD																						
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																					
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																					
RPD																						
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
RPD																						
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																					
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																					
RPD																						
B03.02	SX_OB_20220523_20_08_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
B03.02	SX_OB_20220523_20_09_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
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_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
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																					
RPD																						
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																					
RPD																						
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																					
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																					
RPD																						
D03.02	SX_IB_20220523_07_58_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			<0.50
D03.02	SX_IB_20220523_07_58_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			<0.50
RPD			0		0	0	0				0	0	0	0	0	0	0		0			0
D03.02	SX_IB_20220523_07_58_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			<0.50
D03.02	SX_IB_20220523_07_59_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
RPD			0		0	0	0				0	0	0	0	0	0	0		0			0
D03.02	SX_IB_20220523_07_58_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			<0.50
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																					
RPD																						
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																					
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS																					
RPD																						
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																					
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																					
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 m.
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laborat

		NA					PCBs								Inorganics					
	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)	Fluoride	Moisture Content (dried @ 103°C)
	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-	-	mg/kg	%
EQL	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	100	1
Location Code	Field ID																			
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					9.0	390	29
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.4	150	30
RPD		0	0	0	0		0	0	0	0	0	0	0					7	89	3
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					9.0	390	29
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS		<0.50	<0.50	<10.0	<0.05	43.1						<0.1	1.6	5.2	9.5	5.0		200	
RPD		0	0	0	0								0						64	
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF				<0.05										5.1		5.0			
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF				<0.05										5.1		5.0			
RPD					0										0		0			
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF				<0.05										8.7		5.9			
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF				<0.05										8.8		5.9			
RPD					0										1		0			
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF				<0.05										8.7		5.9			
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS					<0.01									9.7					
RPD															11					
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.5	<100	29
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.5	<100	29
RPD		0	0	0	0		0	0	0	0	0	0	0					12	0	0
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					7.5	<100	29
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS		<0.50	<0.50	<10.0	<0.05	28.5						<0.1	1.6	5.2	8.9	5.0		220	
RPD		0	0	0	0								0						75	
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF				<0.05										5.1		5.0			
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF				<0.05										5.1		5.0			
RPD					0										0		0			
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF				<0.05										8.9		5.9			
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF				<0.05										8.9		5.9			
RPD					0										0		0			
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF				<0.05										8.9		5.9			
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS					<0.01									9.7					
RPD															9					
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS		<0.50	<0.50	<10.0	<0.05	26.4						<0.1	1.6	5.2	9.0	5.0		240	
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS		<0.50	<0.50	<10.0	<0.05	29.7						<0.1	1.6	5.2	9.1	5.0		190	
RPD			0	0	0	12							0	0	0	1	0		23	
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS		<0.50	<0.50	<10.0	<0.05	26.4						<0.1	1.6	5.2	9.0	5.0		240	
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.8	<100	30
RPD		0	0	0	0								0						82	
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS		<0.50	<0.50	<10.0	<0.05	26.4						<0.1	1.6	5.2	9.0	5.0		240	
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF				<0.05										5.1		5.0			
RPD					0										2		0			
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS				<0.01										7.2					
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS				<0.01										9.1					
RPD					0										23					
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS				<0.01										7.2					
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF				<0.05										8.1		5.9			
RPD															12					
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.9	<100	29
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.2	<100	28
RPD		0	0	0	0		0	0	0	0	0	0	0					8	0	4
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.9	<100	29
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS		<0.50	<0.50	<10.0	<0.05	29.5						<0.1	1.6	5.1	8.7	5.0		200	
RPD		0	0	0	0								0						67	
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF				<0.05										5.1		5.0			
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF				<0.05										5.1		5.0			
RPD					0										0		0			
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF				<0.05										8.5		5.9			
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF				<0.05										8.8		5.9			
RPD					0										3		0			
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF				<0.05										8.5		5.9			
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS					<0.01									9.5					
RPD															11					
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS		<0.50	<0.50	<10.0	<0.05	32.4						<0.1	1.6	5.1	8.6	5.0		170	
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS		<0.50	<0.50	<10.0	<0.05	39.3						<0.1	1.6	6.6	9.5	5.0		150	

		NA					PCBs							Inorganics							
		Chloroethane mg/kg	trans-1,2-dichloroethene mg/kg	Tetrachloroethene mg/kg	Sum of WA DWER PFAS (n=10)* UG/KG	Moisture Content µg/L	Moisture Content %	Arochlor 1232 mg/kg	Arochlor 1242 mg/kg	Arochlor 1248 mg/kg	Arochlor 1254 mg/kg	Arochlor 1221 mg/kg	Arochlor 1260 mg/kg	Arochlor 1016 mg/kg	PCBs (Sum of total) mg/kg	pH (after HCL) -	pH (Final) -	pH (Initial) -	pH of Leaching Fluid -	pH (aqueous extract) -	Fluoride mg/kg
RPD		0	0	0	0	19								0	0	10	0	0	0	12	
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.50	<0.50	<10.0	<0.05	32.4								<0.1	1.6	5.1	8.6	5.0		170	
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	<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	<100	33
RPD		0	0	0	0									0						52	
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<0.50	<0.50	<10.0	<0.05	32.4								<0.1	1.6	5.1	8.6	5.0		170	
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF				<0.05											5.0		5.0			
RPD					0											2		0			
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS				<0.01											9.5					
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS				<0.01											10.4					
RPD					0											9					
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS				<0.01											9.5					
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF				<0.05											9.0		5.9			
RPD																5					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.4	140	35
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.1	180	35
RPD		0	0	0	0		0	0	0	0	0	0	0	0					4	25	0
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.4	140	35
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<0.50	<0.50	<10.0	<0.05	35.2								<0.1	1.4	5.1	9.2	5.0		180	
RPD		0	0	0	0									0						25	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF				<0.05											5.1		5.1			
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF				<0.05											5.1		5.1			
RPD					0											0		0			
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF				<0.05											8.5		6.4			
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF				<0.05											8.6		6.4			
RPD					0											1		0			
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF				<0.05											8.5		6.4			
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS				<0.05											9.2					
RPD																8					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.5	110	32
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.6	180	33
RPD		0	0	0	0		0	0	0	0	0	0	0	0					1	48	3
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.5	110	32
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<0.50	<0.50	<10.0	<0.05	34.2								<0.1	1.4	5.1	8.6	5.0		160	
RPD		0	0	0	0									0						37	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF				<0.05											5.1		5.1			
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF				<0.05											5.2		5.1			
RPD					0											2		0			
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF				<0.05											8.6		6.4			
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF				<0.05											9.0		6.4			
RPD					0											5		0			
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF				<0.05											8.6		6.4			
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS				<0.05											9.3					
RPD																8					
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<0.50	<0.50	<10.0	<0.05	30.0								<0.1	1.6	5.1	8.6	5.0		240	
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS	<0.50	<0.50	<10.0	<0.05	30.1								<0.1	1.5	5.1	8.2	5.0		230	
RPD		0	0	0	0	0								0	6	0	5	0		4	
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<0.50	<0.50	<10.0	<0.05	30.0								<0.1	1.6	5.1	8.6	5.0		240	
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.9	<100	30
RPD		0	0	0	0									0						82	
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<0.50	<0.50	<10.0	<0.05	30.0								<0.1	1.6	5.1	8.6	5.0		240	
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF				<0.05											5.1		5.1			
RPD					0											0		2			
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS				<0.05											9.7					
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS				<0.05											9.7					
RPD					0											0					
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS				<0.05											9.7					
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF				<0.05											8.5		6.4			
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 m)
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laborat

Cyanide Total	Halogenated Benzenes							Halogenated Hydrocarbons					MAH							
	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	Monocyclic aromatic hydrocarbons EPA/Vic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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																			
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																			
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																			
RPD																				
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																			
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS																			
RPD																				
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																			
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF																			
RPD																				
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF																			
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS																			
RPD																				
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																			
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF																			
RPD																				
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																			
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS																			
RPD																				
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																			
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF																			
RPD																				
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF																			
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS																			
RPD																				
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																			
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS																			
RPD																				
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																			
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																			
RPD																				
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																			
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																			
RPD																				
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																			
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS																			
RPD																				
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS																			
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF																			
RPD																				
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																			
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																			
RPD																				
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																			
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS																			
RPD																				
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																			
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF																			
RPD																				
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF																			
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS																			
RPD																				
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																			
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS																			

Cyanide Total	Halogenated Benzenes							Halogenated Hydrocarbons					MAH							
	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	Monocyclic aromatic hydrocarbons EPA/Vic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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				
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<5	<0.50	<0.50	<0.50		<0.50							<0.5		<0.5				
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<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				
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS	<5	<0.50	<0.50	<0.50		<0.50							<0.5		<0.5				
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																			
RPD																				
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																			
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS																			
RPD																				
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS																			
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF																			
RPD																				
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<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
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS	<5	<0.50	<0.50	<0.50		<0.50							<0.5		<0.5				
RPD		0	0	0	0		0									0				
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																			
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																			
RPD																				
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																			
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF																			
RPD																				
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF																			
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS																			
RPD																				
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<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
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS	<5	<0.50	<0.50	<0.50		<0.50							<0.5		<0.5				
RPD		0	0	0	0		0									0				
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																			
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																			
RPD																				
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																			
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF																			
RPD																				
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF																			
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS																			
RPD																				
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<5	<0.50	<0.50	<0.50		<0.50								<0.5		<0.5			
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS	<5	<0.50	<0.50	<0.50		<0.50								<0.5		<0.5			
RPD		0	0	0	0		0								0		0			
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<5	<0.50	<0.50	<0.50		<0.50								<0.5		<0.5			
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<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				
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS	<5	<0.50	<0.50	<0.50		<0.50								<0.5		<0.5			
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																			
RPD																				
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																			
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS																			
RPD																				
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS																			
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF																			
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 m)
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laborat

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

Location Code	Field ID				
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<0.5	<0.5	<0.5	
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF	<0.5	<0.5	<0.5	
RPD		0	0	0	
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF	<0.5	<0.5	<0.5	
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS				7.8
RPD					
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF				
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF				
RPD					
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF				
D03.02	SX_IB_20220521_16_07_SS_Duplicate_EUF				
RPD					
D03.02	SX_IB_20220521_16_05_SS_Primary_EUF				
D03.02	SX_IB_20220521_16_08_SS_Triplicate_ALS				
RPD					
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<0.5	<0.5	<0.5	
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF	<0.5	<0.5	<0.5	
RPD		0	0	0	
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF	<0.5	<0.5	<0.5	
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS				7.7
RPD					
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF				
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF				
RPD					
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF				
D03.02	SX_IB_20220521_20_15_SS_Duplicate_EUF				
RPD					
D03.02	SX_IB_20220521_20_13_SS_Primary_EUF				
D03.02	SX_IB_20220521_20_16_SS_Triplicate_ALS				
RPD					
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS				7.7
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS				7.6
RPD					1
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS				7.7
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS				7.7
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF				
RPD					
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS				
D04.02	SX_IB_20220521_08_10_SS_DUPLICATE_ALS				
RPD					
D04.02	SX_IB_20220521_08_09_SS_PRIMARY_ALS				
D04.02	SX_IB_20220521_08_11_SS_Triplicate_EUF				
RPD					
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.5	<0.5	<0.5	
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF	<0.5	<0.5	<0.5	
RPD		0	0	0	
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF	<0.5	<0.5	<0.5	
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS				7.6
RPD					
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF				
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF				
RPD					
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF				
D03.02	SX_IB_20220522_08_12_SS_Duplicate_EUF				
RPD					
D03.02	SX_IB_20220522_08_11_SS_Primary_EUF				
D03.02	SX_IB_20220522_08_14_SS_Triplicate_ALS				
RPD					
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS				7.7
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS				8.2

		Solvents			SPOCAS
		Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
		mg/kg	mg/kg	mg/kg	-
RPD					6
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS				7.7
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS				7.7
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF				
RPD					
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS				
D02.02	SX_OB_20220522_15_47_SS_Duplicate_ALS				
RPD					
D02.02	SX_OB_20220522_15_46_SS_Primary_ALS				
D02.02	SX_OB_20220522_15_48_SS_Triplicate_EUF				
RPD					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF	<0.5	<0.5	<0.5	
RPD		0	0	0	
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS				7.7
RPD					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF				
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF				
RPD					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF				
B03.02	SX_OB_20220523_15_59_SS_Duplicate_EUF				
RPD					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF				
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS				
RPD					
B03.02	SX_OB_20220523_15_58_SS_Primary_EUF				
B03.02	SX_OB_20220523_15_59_SS_Triplicate_ALS				
RPD					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF	<0.5	<0.5	<0.5	
RPD		0	0	0	
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF	<0.5	<0.5	<0.5	
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS				7.7
RPD					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF				
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF				
RPD					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF				
B03.02	SX_OB_20220523_20_09_SS_Duplicate_EUF				
RPD					
B03.02	SX_OB_20220523_20_08_SS_Primary_EUF				
B03.02	SX_OB_20220523_20_10_SS_Triplicate_ALS				
RPD					
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS				7.8
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS				7.8
RPD					0
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS				7.8
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF	<0.5	<0.5	<0.5	
RPD					
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS				7.8
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF				
RPD					
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS				
D03.02	SX_IB_20220523_07_58_SS_Duplicate_ALS				
RPD					
D03.02	SX_IB_20220523_07_58_SS_Primary_ALS				
D03.02	SX_IB_20220523_07_59_SS_Triplicate_EUF				
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 m).

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

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B03.0220220602162948_02	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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ATTACHMENT B: 95% UCL AVE CALCULATIONS

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Data Sets with Non-Detects											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.16/06/2022 11:04:03 AM									
5	From File		WorkSheet_a.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Number of Bootstrap Operations		2000									
9												
10												
11	Arsenic											
12												
13	General Statistics											
14	Total Number of Observations			18			Number of Distinct Observations			17		
15							Number of Missing Observations			0		
16	Minimum			37			Mean			59.89		
17	Maximum			91			Median			56		
18	SD			15.52			Std. Error of Mean			3.658		
19	Coefficient of Variation			0.259			Skewness			0.628		
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic			0.947			Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value			0.897			Data appear Normal at 5% Significance Level					
24	Lilliefors Test Statistic			0.16			Lilliefors GOF Test					
25	5% Lilliefors Critical Value			0.202			Data appear Normal at 5% Significance Level					
26	Data appear Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL			66.25			95% Adjusted-CLT UCL (Chen-1995)			66.48		
31							95% Modified-t UCL (Johnson-1978)			66.34		
32												
33	Gamma GOF Test											
34	A-D Test Statistic			0.24			Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value			0.739			Detected data appear Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic			0.13			Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value			0.203			Detected data appear Gamma Distributed at 5% Significance Level					
38	Detected data appear Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)			16.37			k star (bias corrected MLE)			13.68		
42	Theta hat (MLE)			3.659			Theta star (bias corrected MLE)			4.379		
43	nu hat (MLE)			589.2			nu star (bias corrected)			492.3		
44	MLE Mean (bias corrected)			59.89			MLE Sd (bias corrected)			16.19		
45							Approximate Chi Square Value (0.05)			441.9		
46	Adjusted Level of Significance			0.0357			Adjusted Chi Square Value			437.3		
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50)			66.73			95% Adjusted Gamma UCL (use when n<50)			67.43		
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic			0.975			Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk Critical Value			0.897			Data appear Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic			0.113			Lilliefors Lognormal GOF Test					
55	5% Lilliefors Critical Value			0.202			Data appear Lognormal at 5% Significance Level					
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data			3.611			Mean of logged Data			4.062		
60	Maximum of Logged Data			4.511			SD of logged Data			0.255		
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL			67.14			90% Chebyshev (MVUE) UCL			70.77		
64	95% Chebyshev (MVUE) UCL			75.7			97.5% Chebyshev (MVUE) UCL			82.55		
65	99% Chebyshev (MVUE) UCL			96								
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												

	A	B	C	D	E	F	G	H	I	J	K	L
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL					65.91		95% Jackknife UCL				66.25
72	95% Standard Bootstrap UCL					65.82		95% Bootstrap-t UCL				66.91
73	95% Hall's Bootstrap UCL					67.02		95% Percentile Bootstrap UCL				66.17
74	95% BCA Bootstrap UCL					65.94						
75	90% Chebyshev(Mean, Sd) UCL					70.86		95% Chebyshev(Mean, Sd) UCL				75.83
76	97.5% Chebyshev(Mean, Sd) UCL					82.73		99% Chebyshev(Mean, Sd) UCL				96.28
77												
78	Suggested UCL to Use											
79	95% Student's-t UCL					66.25						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86												
87	Copper											
88												
89	General Statistics											
90	Total Number of Observations				18		Number of Distinct Observations				16	
91					Number of Missing Observations				0			
92	Minimum				45		Mean				64.17	
93	Maximum				130		Median				58	
94	SD				19.47		Std. Error of Mean				4.589	
95	Coefficient of Variation				0.303		Skewness				2.486	
96												
97	Normal GOF Test											
98	Shapiro Wilk Test Statistic				0.742		Shapiro Wilk GOF Test					
99	5% Shapiro Wilk Critical Value				0.897		Data Not Normal at 5% Significance Level					
100	Lilliefors Test Statistic				0.211		Lilliefors GOF Test					
101	5% Lilliefors Critical Value				0.202		Data Not Normal at 5% Significance Level					
102	Data Not 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				72.15		95% Adjusted-CLT UCL (Chen-1995)				74.59	
107					95% Modified-t UCL (Johnson-1978)				72.6			
108												
109	Gamma GOF Test											
110	A-D Test Statistic				0.919		Anderson-Darling Gamma GOF Test					
111	5% A-D Critical Value				0.739		Data Not Gamma Distributed at 5% Significance Level					
112	K-S Test Statistic				0.186		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 follow Appr. Gamma Distribution at 5% Significance Level											
115												
116	Gamma Statistics											
117	k hat (MLE)				15.32		k star (bias corrected MLE)				12.8	
118	Theta hat (MLE)				4.189		Theta star (bias corrected MLE)				5.012	
119	nu hat (MLE)				551.5		nu star (bias corrected)				460.9	
120	MLE Mean (bias corrected)				64.17		MLE Sd (bias corrected)				17.93	
121					Approximate Chi Square Value (0.05)				412.1			
122	Adjusted Level of Significance				0.0357		Adjusted Chi Square Value				407.7	
123												
124	Assuming Gamma Distribution											
125	95% Approximate Gamma UCL (use when n>=50)				71.76		95% Adjusted Gamma UCL (use when n<50)				72.54	
126												
127	Lognormal GOF Test											
128	Shapiro Wilk Test Statistic				0.87		Shapiro Wilk Lognormal GOF Test					
129	5% Shapiro Wilk Critical Value				0.897		Data Not Lognormal at 5% Significance Level					
130	Lilliefors Test Statistic				0.169		Lilliefors Lognormal GOF Test					
131	5% Lilliefors Critical Value				0.202		Data appear Lognormal at 5% Significance Level					
132	Data appear Approximate Lognormal at 5% Significance Level											
133												
134	Lognormal Statistics											
135	Minimum of Logged Data				3.807		Mean of logged Data				4.128	
136	Maximum of Logged Data				4.868		SD of logged Data				0.249	
137												
138	Assuming Lognormal Distribution											
139	95% H-UCL				71.45		90% Chebyshev (MVUE) UCL				75.25	
140	95% Chebyshev (MVUE) UCL				80.39		97.5% Chebyshev (MVUE) UCL				87.51	
141	99% Chebyshev (MVUE) UCL				101.5							
142												

	A	B	C	D	E	F	G	H	I	J	K	L
143	Nonparametric Distribution Free UCL Statistics											
144	Data appear to follow a Discernible Distribution at 5% Significance Level											
145												
146	Nonparametric Distribution Free UCLs											
147	95% CLT UCL			71.72			95% Jackknife UCL			72.15		
148	95% Standard Bootstrap UCL			71.4			95% Bootstrap-t UCL			77.78		
149	95% Hall's Bootstrap UCL			104			95% Percentile Bootstrap UCL			72.39		
150	95% BCA Bootstrap UCL			74.94								
151	90% Chebyshev(Mean, Sd) UCL			77.93			95% Chebyshev(Mean, Sd) UCL			84.17		
152	97.5% Chebyshev(Mean, Sd) UCL			92.83			99% Chebyshev(Mean, Sd) UCL			109.8		
153												
154	Suggested UCL to Use											
155	95% Adjusted Gamma UCL			72.54								
156												
157	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
158	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
159												
160	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
161	Recommendations are based upon data size, data distribution, and skewness.											
162	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
163	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
164												
165												
166	Nickel											
167												
168	General Statistics											
169	Total Number of Observations			18			Number of Distinct Observations			15		
170							Number of Missing Observations			0		
171	Minimum			114			Mean			151.9		
172	Maximum			260			Median			141		
173	SD			37.14			Std. Error of Mean			8.753		
174	Coefficient of Variation			0.245			Skewness			1.699		
175												
176	Normal GOF Test											
177	Shapiro Wilk Test Statistic			0.838			Shapiro Wilk GOF Test					
178	5% Shapiro Wilk Critical Value			0.897			Data Not Normal at 5% Significance Level					
179	Lilliefors Test Statistic			0.191			Lilliefors GOF Test					
180	5% Lilliefors Critical Value			0.202			Data appear Normal at 5% Significance Level					
181	Data appear Approximate Normal at 5% Significance Level											
182												
183	Assuming Normal Distribution											
184	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
185	95% Student's-t UCL			167.1			95% Adjusted-CLT UCL (Chen-1995)			170		
186							95% Modified-t UCL (Johnson-1978)			167.7		
187												
188	Gamma GOF Test											
189	A-D Test Statistic			0.654			Anderson-Darling Gamma GOF Test					
190	5% A-D Critical Value			0.739			Detected data appear Gamma Distributed at 5% Significance Level					
191	K-S Test Statistic			0.16			Kolmogorov-Smirnov Gamma GOF Test					
192	5% K-S Critical Value			0.203			Detected data appear Gamma Distributed at 5% Significance Level					
193	Detected data appear Gamma Distributed at 5% Significance Level											
194												
195	Gamma Statistics											
196	k hat (MLE)			20.94			k star (bias corrected MLE)			17.49		
197	Theta hat (MLE)			7.252			Theta star (bias corrected MLE)			8.685		
198	nu hat (MLE)			753.9			nu star (bias corrected)			629.6		
199	MLE Mean (bias corrected)			151.9			MLE Sd (bias corrected)			36.32		
200							Approximate Chi Square Value (0.05)			572.4		
201	Adjusted Level of Significance			0.0357			Adjusted Chi Square Value			567.2		
202												
203	Assuming Gamma Distribution											
204	95% Approximate Gamma UCL (use when n>=50)			167.1			95% Adjusted Gamma UCL (use when n<50)			168.6		
205												
206	Lognormal GOF Test											
207	Shapiro Wilk Test Statistic			0.911			Shapiro Wilk Lognormal GOF Test					
208	5% Shapiro Wilk Critical Value			0.897			Data appear Lognormal at 5% Significance Level					
209	Lilliefors Test Statistic			0.146			Lilliefors Lognormal GOF Test					
210	5% Lilliefors Critical Value			0.202			Data appear Lognormal at 5% Significance Level					
211	Data appear Lognormal at 5% Significance Level											
212												

	A	B	C	D	E	F	G	H	I	J	K	L
213	Lognormal Statistics											
214	Minimum of Logged Data					4.736	Mean of logged Data					4.999
215	Maximum of Logged Data					5.561	SD of logged Data					0.218
216												
217	Assuming Lognormal Distribution											
218	95% H-UCL					167	90% Chebyshev (MVUE) UCL					175.1
219	95% Chebyshev (MVUE) UCL					185.8	97.5% Chebyshev (MVUE) UCL					200.6
220	99% Chebyshev (MVUE) UCL					229.6						
221												
222	Nonparametric Distribution Free UCL Statistics											
223	Data appear to follow a Discernible Distribution at 5% Significance Level											
224												
225	Nonparametric Distribution Free UCLs											
226	95% CLT UCL					166.3	95% Jackknife UCL					167.1
227	95% Standard Bootstrap UCL					166	95% Bootstrap-t UCL					173.2
228	95% Hall's Bootstrap UCL					192.6	95% Percentile Bootstrap UCL					166.3
229	95% BCA Bootstrap UCL					170.9						
230	90% Chebyshev(Mean, Sd) UCL					178.1	95% Chebyshev(Mean, Sd) UCL					190
231	97.5% Chebyshev(Mean, Sd) UCL					206.6	99% Chebyshev(Mean, Sd) UCL					239
232												
233	Suggested UCL to Use											
234	95% Student's-t UCL					167.1						
235												
236	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
237	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
238												
239	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
240	Recommendations are based upon data size, data distribution, and skewness.											
241	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
242	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
243												
244	Fluoride											
245												
246	General Statistics											
247	Total Number of Observations					18	Number of Distinct Observations					11
248	Number of Detects					17	Number of Non-Detects					1
249	Number of Distinct Detects					10	Number of Distinct Non-Detects					1
250	Minimum Detect					110	Minimum Non-Detect					100
251	Maximum Detect					700	Maximum Non-Detect					100
252	Variance Detects					17813	Percent Non-Detects					5.556%
253	Mean Detects					194.1	SD Detects					133.5
254	Median Detects					170	CV Detects					0.688
255	Skewness Detects					3.804	Kurtosis Detects					15.17
256	Mean of Logged Detects					5.161	SD of Logged Detects					0.402
257												
258	Normal GOF Test on Detects Only											
259	Shapiro Wilk Test Statistic					0.463	Shapiro Wilk GOF Test					
260	5% Shapiro Wilk Critical Value					0.892	Detected Data Not Normal at 5% Significance Level					
261	Lilliefors Test Statistic					0.394	Lilliefors GOF Test					
262	5% Lilliefors Critical Value					0.207	Detected Data Not Normal at 5% Significance Level					
263	Detected Data Not Normal at 5% Significance Level											
264												
265	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
266	KM Mean					188.9	KM Standard Error of Mean					31.02
267	KM SD					127.7	95% KM (BCA) UCL					250.6
268	95% KM (t) UCL					242.8	95% KM (Percentile Bootstrap) UCL					247.2
269	95% KM (z) UCL					239.9	95% KM Bootstrap t UCL					355.7
270	90% KM Chebyshev UCL					281.9	95% KM Chebyshev UCL					324.1
271	97.5% KM Chebyshev UCL					382.6	99% KM Chebyshev UCL					497.5
272												
273	Gamma GOF Tests on Detected Observations Only											
274	A-D Test Statistic					2.221	Anderson-Darling GOF Test					
275	5% A-D Critical Value					0.742	Detected Data Not Gamma Distributed at 5% Significance Level					
276	K-S Test Statistic					0.313	Kolmogorov-Smirnov GOF					
277	5% K-S Critical Value					0.21	Detected Data Not Gamma Distributed at 5% Significance Level					
278	Detected Data Not Gamma Distributed at 5% Significance Level											
279												
280	Gamma Statistics on Detected Data Only											
281	k hat (MLE)					4.828	k star (bias corrected MLE)					4.015
282	Theta hat (MLE)					40.21	Theta star (bias corrected MLE)					48.35
283	nu hat (MLE)					164.2	nu star (bias corrected)					136.5
284	Mean (detects)					194.1						

	A	B	C	D	E	F	G	H	I	J	K	L
285	Gamma ROS Statistics using Imputed Non-Detects											
286	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
287	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
288	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
289	This is especially true when the sample size is small.											
290	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
291	Minimum	17.77								Mean	184.3	
292	Maximum	700								Median	165	
293	SD	136								CV	0.738	
294	k hat (MLE)	2.9								k star (bias corrected MLE)	2.454	
295	Theta hat (MLE)	63.56								Theta star (bias corrected MLE)	75.12	
296	nu hat (MLE)	104.4								nu star (bias corrected)	88.33	
297	Adjusted Level of Significance (β)	0.0357										
298	Approximate Chi Square Value (88.33, α)	67.66								Adjusted Chi Square Value (88.33, β)	65.92	
299	95% Gamma Approximate UCL (use when n>=50)	240.6								95% Gamma Adjusted UCL (use when n<50)	247	
300												
301	Estimates of Gamma Parameters using KM Estimates											
302	Mean (KM)	188.9								SD (KM)	127.7	
303	Variance (KM)	16299								SE of Mean (KM)	31.02	
304	k hat (KM)	2.189								k star (KM)	1.861	
305	nu hat (KM)	78.81								nu star (KM)	67.01	
306	theta hat (KM)	86.29								theta star (KM)	101.5	
307	80% gamma percentile (KM)	285.2								90% gamma percentile (KM)	373.7	
308	95% gamma percentile (KM)	458.4								99% gamma percentile (KM)	647.2	
309												
310	Gamma Kaplan-Meier (KM) Statistics											
311	Approximate Chi Square Value (67.01, α)	49.17								Adjusted Chi Square Value (67.01, β)	47.7	
312	95% Gamma Approximate KM-UCL (use when n>=50)	257.4								95% Gamma Adjusted KM-UCL (use when n<50)	265.3	
313												
314	Lognormal GOF Test on Detected Observations Only											
315	Shapiro Wilk Test Statistic	0.703								Shapiro Wilk GOF Test		
316	5% Shapiro Wilk Critical Value	0.892								Detected Data Not Lognormal at 5% Significance Level		
317	Lilliefors Test Statistic	0.263								Lilliefors GOF Test		
318	5% Lilliefors Critical Value	0.207								Detected Data Not Lognormal at 5% Significance Level		
319	Detected Data Not Lognormal at 5% Significance Level											
320												
321	Lognormal ROS Statistics Using Imputed Non-Detects											
322	Mean in Original Scale	187.6								Mean in Log Scale	5.116	
323	SD in Original Scale	132.4								SD in Log Scale	0.435	
324	95% t UCL (assumes normality of ROS data)	241.9								95% Percentile Bootstrap UCL	248.7	
325	95% BCA Bootstrap UCL	278.1								95% Bootstrap t UCL	336.9	
326	95% H-UCL (Log ROS)	225.3										
327												
328	Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution											
329	KM Mean (logged)	5.13								KM Geo Mean	169.1	
330	KM SD (logged)	0.4								95% Critical H Value (KM-Log)	1.931	
331	KM Standard Error of Mean (logged)	0.0971								95% H-UCL (KM -Log)	220.9	
332	KM SD (logged)	0.4								95% Critical H Value (KM-Log)	1.931	
333	KM Standard Error of Mean (logged)	0.0971										
334												
335	DL/2 Statistics											
336	DL/2 Normal						DL/2 Log-Transformed					
337	Mean in Original Scale	186.1								Mean in Log Scale	5.092	
338	SD in Original Scale	133.9								SD in Log Scale	0.489	
339	95% t UCL (Assumes normality)	241								95% H-Stat UCL	232.6	
340	DL/2 is not a recommended method, provided for comparisons and historical reasons											
341												
342	Nonparametric Distribution Free UCL Statistics											
343	Data do not follow a Discernible Distribution at 5% Significance Level											
344												
345	Suggested UCL to Use											
346	95% KM (t) UCL	242.8								KM H-UCL	220.9	
347	95% KM (BCA) UCL	250.6										
348												
349	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
350	Recommendations are based upon data size, data distribution, and skewness.											
351	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
352	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
353												
354												

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B03.0220220602162948_02	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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ATTACHMENT C: LABORATORY CERTIFICATES

Company	AGCON Environmental - Tunnel Spoil Testing	Project No	JC0927	Project Manager	Craig Trimbur	Sampler(s)	Dayle B - EP Risk, ES - EP Risk Will & Brandon - Agon
Address	Unit H76, 93-95 Turner St, Port Melbourne VIC 3207	Project Name	WGTP-Tunnel Ref: 20220522050323-Eurofin-14	EDD Format	ES:R, ES:Q, ES:M	Handled over by	D BARNETT 23/05/22
Contact Name	Craig Trimbur David Lawson	Analysis	Spoil Sample Preparation Metals (As, Cd, Cr, Cu, Hg, Pb, Ag, Sn, Mo, Ni, Zn), Cr6+, CNV Total Fluoride (F) PFAS Extended Suite - 0.1 - 5ug/kg ASDP PHS - PFAS 001-005 ug/l ASDP PHS - PFAS 001-005 ug/l ASDP PHS - PFAS 001-005 ug/l				
Phone No	+61 400 828 807 (Craig) +61 480 411 004 (David)	Special Directions	Please provide an interim lab report if finalised report has not been provided by 14 days from sample receipt. Please provide aSRN along with other sample receipt documentation.				
Purchase Order		Containers	50mL Plastic 250mL Plastic 125mL Plastic 200mL Amber Glasses 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other (please specify in box)				
Quote ID No	Agon WGTP TST	Required Turnaround Time (TAT)	Detail will be 5 days if not boxed <input type="checkbox"/> Overnight (reporting by Sam) <input type="checkbox"/> Same day <input type="checkbox"/> 1 day <input type="checkbox"/> 3 days <input type="checkbox"/> Other				

No	Client Sample ID	Sampled Date/Time	Matrix	As	Cd	Cr	Cu	Hg	Pb	Ag	Sn	Mo	Ni	Zn	Cr6+	CNV Total	Fluoride (F)	PFAS Extended Suite	ASDP PHS	ASDP PHS	ASDP PHS	Other	Sample Comments / Dangerous Goods Hazard Warning
1	SX_IB_20220521_08_11_SS_TRIPPLICATE_EUF	21/05/2022	S	X	X	X	X	X	X														
2	SX_IB_20220521_08_34_SS_PRIMARY_EUF	21/05/2022	S	X	X	X	X	X	X														
3	SX_IB_20220521_11_02_SS_PRIMARY_EUF	21/05/2022	S	X	X	X	X	X	X														
4	SX_OB_20220521_12_00_SS_PRIMARY_EUF	21/05/2022	S	X	X	X	X	X	X														
5	SX_IB_20220521_12_19_SR_Rinsate_EUF	21/05/2022	W					X															
6	SX_IB_20220521_12_22_SB_Blank_EUF	21/05/2022	W					X															
7	SX_IB_20220521_16_05_SS_PRIMARY_EUF	21/05/2022	S	X	X	X	X	X	X														
8	SX_IB_20220521_16_07_SS_DUPLICATE_EUF	21/05/2022	S	X	X	X	X	X	X														
9	SX_OB_20220521_20_02_SS_PRIMARY_EUF	21/05/2022	S	X	X	X	X	X	X														
10	SX_IB_20220521_20_13_SS_PRIMARY_EUF	21/05/2022	S	X	X	X	X	X	X														
11	SX_IB_20220521_20_15_SS_DUPLICATE_EUF	21/05/2022	S	X	X	X	X	X	X														
12	SX_OB_20220522_00_03_SS_PRIMARY_EUF	22/05/2022	S	X	X	X	X	X	X														
13	SX_OB_20220522_04_05_SS_PRIMARY_EUF	22/05/2022	S	X	X	X	X	X	X														
14	SX_IB_20220522_08_11_SS_PRIMARY_EUF	22/05/2022	S	X	X	X	X	X	X														
15	SX_IB_20220522_08_12_SS_DUPLICATE_EUF	22/05/2022	S	X	X	X	X	X	X														
16	SX_OB_20220522_11_51_SS_PRIMARY_EUF	22/05/22	S	X	X	X	X	X	X														
17	SX_OB_20220522_13_46_SS_TRIPPLICATE_EUF	22/05/22	S	X	X	X	X	X	X														
18	SX_OB_20220522_15_54_SS_PRIMARY_EUF	22/05/22	S	X	X	X	X	X	X														
19	SX_OB_20220522_20_13_SS_PRIMARY_EUF	22/05/22	S	X	X	X	X	X	X														
20	SX_OB_20220523_00_18_SS_PRIMARY_EUF	23/05/22	S	X	X	X	X	X	X														
21	SX_OB_20220523_04_18_SS_PRIMARY_EUF	23/05/22	S	X	X	X	X	X	X														
22																							
23																							
24																							
25																							
26																							
27																							

Method	AS/NZS 4459.1	Received By	LANA	Signature	[Signature]	Date	23/5/22	Time	12:30pm	Temperature	15.8
Lab Use Only		Received By		Signature		Date		Time		Report No	

Chilled:
emp:
Corrected:
Temp

15.6
+0.2
15.8

890748 Jake



Environment Testing

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Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
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SA 5063
Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_IB_20220521_08_11_SS_Triplicate_EUF	May 21, 2022	8:11AM	Soil	M22-My0053736		X	X	X
2	SX_IB_20220521_08_34_SS_Primary_EUF	May 21, 2022	8:34AM	Soil	M22-My0053737		X	X	X
3	SX_IB_20220521_11_52_SS_Primary_EUF	May 21, 2022	11:52AM	Soil	M22-My0053738		X	X	X
4	SX_OB_20220521_12_00_S	May 21, 2022	12:00PM	Soil	M22-My0053739		X	X	X



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Company Name: Agon Environmental Pty Ltd - VIC
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SA 5063
Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
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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									
	S_Primary_EU F								
5	SX_IB_202205 21_12_19_SR _Rinsate_EUF	May 21, 2022	12:19PM	Water	M22- My0053740			X	
6	SX_IB_202205 21_12_22_SB _Blank_EUF	May 21, 2022	12:22PM	Water	M22- My0053741			X	
7	SX_IB_202205 21_16_05_SS _Primary_EUF	May 21, 2022	4:05PM	Soil	M22- My0053742		X	X	X
8	SX_IB_202205 21_16_07_SS _Duplicate_EU	May 21, 2022	4:07PM	Soil	M22- My0053743		X	X	X



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Company Name: Agon Environmental Pty Ltd - VIC
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SA 5063

Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Duplicate_EU F								
9	SX_OB_20220521_20_02_SS_Primary_EU F	May 21, 2022	8:02PM	Soil	M22-My0053744		X	X	X
10	SX_IB_20220521_20_13_SS_Primary_EU F	May 21, 2022	8:13PM	Soil	M22-My0053745		X	X	X
11	SX_IB_20220521_20_15_SS_Duplicate_EU F	May 21, 2022	8:15PM	Soil	M22-My0053746		X	X	X
12	SX_OB_20220	May 22, 2022	12:03AM	Soil	M22-		X	X	X



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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	522_00_03_S S_Primary_EU F				My0053747				
13	SX_OB_20220 522_04_05_S S_Primary_EU F	May 22, 2022	4:05AM	Soil	M22- My0053748		X	X	X
14	SX_IB_202205 22_08_11_SS _Primary_EUF	May 22, 2022	8:11AM	Soil	M22- My0053749		X	X	X
15	SX_IB_202205 22_08_12_SS _Duplicate_EU F	May 22, 2022	8:12AM	Soil	M22- My0053750		X	X	X



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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
16	SX_OB_20220522_11_51_S_S_Primary_EU_F	May 22, 2022	11:51AM	Soil	M22-My0053751		X	X	X
17	SX_OB_20220522_15_48_S_S_Triplicate_EUF	May 22, 2022	3:48PM	Soil	M22-My0053752		X	X	X
18	SX_OB_20220522_15_54_S_S_Primary_EU_F	May 22, 2022	3:54PM	Soil	M22-My0053753		X	X	X
19	SX_OB_20220522_20_13_S	May 22, 2022	8:13PM	Soil	M22-My0053754		X	X	X



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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
20	SX_OB_20220 523_00_18_S S_Primary_EU F	May 23, 2022	12:18AM	Soil	M22- My0053755		X	X	X
21	SX_OB_20220 523_04_18_S S_Primary_EU F	May 23, 2022	4:18AM	Soil	M22- My0053756		X	X	X
22	SX_IB_202205 21_08_11_SS _Triplicate_EU F	May 21, 2022	8:11AM	AUS Leachate - pH 5.0	M22- My0053757	X		X	



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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
23	SX_IB_20220521_08_34_SS_Primary_EUF	May 21, 2022	8:34AM	AUS Leachate - pH 5.0	M22-My0053758	X		X	
24	SX_IB_20220521_11_52_SS_Primary_EUF	May 21, 2022	11:52AM	AUS Leachate - pH 5.0	M22-My0053759	X		X	
25	SX_OB_20220521_12_00_S_S_Primary_EUF	May 21, 2022	12:00PM	AUS Leachate - pH 5.0	M22-My0053760	X		X	
26	SX_IB_20220521_16_05_SS_Primary_EUF	May 21, 2022	4:05PM	AUS Leachate - pH 5.0	M22-My0053761	X		X	
27	SX_IB_202205	May 21, 2022	4:07PM	AUS Leachate	M22-	X		X	



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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_16_07_SS Duplicate_EU F			- pH 5.0	My0053762				
28	SX_OB_20220521_20_02_SS_Primary_EU F	May 21, 2022	8:02PM	AUS Leachate - pH 5.0	M22-My0053763	X		X	
29	SX_IB_20220521_20_13_SS_Primary_EU F	May 21, 2022	8:13PM	AUS Leachate - pH 5.0	M22-My0053764	X		X	
30	SX_IB_20220521_20_15_SS_Duplicate_EU F	May 21, 2022	8:15PM	AUS Leachate - pH 5.0	M22-My0053765	X		X	

Company Name: Agon Environmental Pty Ltd - VIC
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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
31	SX_OB_20220522_00_03_SS_Primary_EU_F	May 22, 2022	12:03AM	AUS Leachate - pH 5.0	M22-My0053766	X		X	
32	SX_OB_20220522_04_05_SS_Primary_EU_F	May 22, 2022	4:05AM	AUS Leachate - pH 5.0	M22-My0053767	X		X	
33	SX_IB_20220522_08_11_SS_Primary_EUF	May 22, 2022	8:11AM	AUS Leachate - pH 5.0	M22-My0053768	X		X	
34	SX_IB_20220522_08_12_SS_Duplicate_EU	May 22, 2022	8:12AM	AUS Leachate - pH 5.0	M22-My0053769	X		X	



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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	F								
35	SX_OB_20220522_11_51_S_S_Primary_EU_F	May 22, 2022	11:51AM	AUS Leachate - pH 5.0	M22-My0053770	X		X	
36	SX_OB_20220522_15_48_S_S_Triplicate_EUF	May 22, 2022	3:48PM	AUS Leachate - pH 5.0	M22-My0053771	X		X	
37	SX_OB_20220522_15_54_S_S_Primary_EU_F	May 22, 2022	3:54PM	AUS Leachate - pH 5.0	M22-My0053772	X		X	
38	SX_OB_20220	May 22, 2022	8:13PM	AUS Leachate	M22-	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
38	SX_OB_20220522_20_13_S_S_Primary_EU_F	May 22, 2022	8:13PM	AUS Leachate - pH 5.0	M22-My0053773				
39	SX_OB_20220523_00_18_S_S_Primary_EU_F	May 23, 2022	12:18AM	AUS Leachate - pH 5.0	M22-My0053774	X		X	
40	SX_OB_20220523_04_18_S_S_Primary_EU_F	May 23, 2022	4:18AM	AUS Leachate - pH 5.0	M22-My0053775	X		X	
41	SX_IB_20220521_08_11_SS	May 21, 2022	8:11AM	AUS Leachate - Reagent	M22-My0053776	X		X	



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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Triplicate_EU F			Water					
42	SX_IB_202205 21_08_34_SS _Primary_EUF	May 21, 2022	8:34AM	AUS Leachate - Reagent Water	M22- My0053777	X		X	
43	SX_IB_202205 21_11_52_SS _Primary_EUF	May 21, 2022	11:52AM	AUS Leachate - Reagent Water	M22- My0053778	X		X	
44	SX_OB_20220 521_12_00_S S_Primary_EU F	May 21, 2022	12:00PM	AUS Leachate - Reagent Water	M22- My0053779	X		X	
45	SX_IB_202205 21_16_05_SS	May 21, 2022	4:05PM	AUS Leachate - Reagent	M22- My0053780	X		X	



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

Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_16_05_SS _Primary_EUF			- Reagent Water	My0053780				
46	SX_IB_202205 21_16_07_SS _Duplicate_EU F	May 21, 2022	4:07PM	AUS Leachate - Reagent Water	M22- My0053781	X		X	
47	SX_OB_20220 521_20_02_S S_Primary_EU F	May 21, 2022	8:02PM	AUS Leachate - Reagent Water	M22- My0053782	X		X	
48	SX_IB_202205 21_20_13_SS _Primary_EUF	May 21, 2022	8:13PM	AUS Leachate - Reagent Water	M22- My0053783	X		X	
49	SX_IB_202205	May 21, 2022	8:15PM	AUS Leachate	M22-	X		X	

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_20_15_SS_Duplicate_EU_F			- Reagent Water	My0053784				
50	SX_OB_20220522_00_03_SS_Primary_EU_F	May 22, 2022	12:03AM	AUS Leachate - Reagent Water	M22-My0053785	X		X	
51	SX_OB_20220522_04_05_SS_Primary_EU_F	May 22, 2022	4:05AM	AUS Leachate - Reagent Water	M22-My0053786	X		X	
52	SX_IB_20220522_08_11_SS_Primary_EUF	May 22, 2022	8:11AM	AUS Leachate - Reagent Water	M22-My0053787	X		X	

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
53	SX_IB_20220522_08_12_SS_Duplicate_EU_F	May 22, 2022	8:12AM	AUS Leachate - Reagent Water	M22-My0053788	X		X	
54	SX_OB_20220522_11_51_SS_Primary_EU_F	May 22, 2022	11:51AM	AUS Leachate - Reagent Water	M22-My0053789	X		X	
55	SX_OB_20220522_15_48_SS_Triplicate_EUF	May 22, 2022	3:48PM	AUS Leachate - Reagent Water	M22-My0053790	X		X	
56	SX_OB_20220522_15_54_SS	May 22, 2022	3:54PM	AUS Leachate - Reagent	M22-My0053791	X		X	



Environment Testing

Eurofins Environment Testing Australia Pty Ltd

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Melbourne
6 Monterey Road
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Mayfield East NSW 2304
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NATA # 1261 Site # 25079

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
57	SX_OB_20220 522_20_13_S S_Primary_EU F	May 22, 2022	8:13PM	AUS Leachate - Reagent Water	M22- My0053792	X		X	
58	SX_OB_20220 523_00_18_S S_Primary_EU F	May 23, 2022	12:18AM	AUS Leachate - Reagent Water	M22- My0053793	X		X	
59	SX_OB_20220 523_04_18_S S_Primary_EU F	May 23, 2022	4:18AM	AUS Leachate - Reagent Water	M22- My0053794	X		X	



Environment Testing

Eurofins Environment Testing Australia Pty Ltd

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

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NATA # 1261 Site # 25079

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NATA # 2377 Site # 2370

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

Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 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)	IMRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217				
Brisbane Laboratory - NATA # 1261 Site # 20794				
Mayfield Laboratory - NATA # 1261 Site # 25079				
Perth Laboratory - NATA # 2377 Site # 2370				
External Laboratory				
Test Counts	38	19	59	19

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 **890748-L**
Project name **20220523050323-Eurofin-14**
Project ID **JC0927**
Received Date **May 23, 2022**

Client Sample ID			SX_IB_202205 21_08_11_SS TriPLICATE_EUF	SX_IB_202205 21_08_34_SS Primary_EUF	SX_IB_202205 21_11_52_SS Primary_EUF	SX_OB_20220 521_12_00_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- My0053757	M22- My0053758	M22- My0053759	M22- My0053760
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.1
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	%	83	88	63	84
13C5-PFPeA (surr.)	1	%	81	101	53	84
13C5-PFHxA (surr.)	1	%	79	67	68	91
13C4-PFHpA (surr.)	1	%	115	105	73	98
13C8-PFOA (surr.)	1	%	131	139	95	104
13C5-PFNA (surr.)	1	%	107	110	81	106
13C6-PFDA (surr.)	1	%	95	113	76	105
13C2-PFUnDA (surr.)	1	%	110	125	101	114
13C2-PFDoDA (surr.)	1	%	93	107	76	97
13C2-PFTeDA (surr.)	1	%	113	121	87	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

Client Sample ID			SX_IB_202205 21_08_11_SS TriPLICATE_EUF	SX_IB_202205 21_08_34_SS Primary_EUF	SX_IB_202205 21_11_52_SS Primary_EUF	SX_OB_20220 521_12_00_SS Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- My0053757	M22- My0053758	M22- My0053759	M22- My0053760
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
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	%	101	97	65	78
D3-N-MeFOSA (surr.)	1	%	123	152	45	88
D5-N-EtFOSA (surr.)	1	%	133	147	45	111
D7-N-MeFOSE (surr.)	1	%	123	151	98	122
D9-N-EtFOSE (surr.)	1	%	108	138	82	122
D5-N-EtFOSAA (surr.)	1	%	57	123	88	102
D3-N-MeFOSAA (surr.)	1	%	132	131	125	103
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	96	107	73	130
18O2-PFHxS (surr.)	1	%	104	119	87	125
13C8-PFOS (surr.)	1	%	128	118	76	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	138	117	88	82
13C2-6:2 FTSA (surr.)	1	%	89	158	71	87
13C2-8:2 FTSA (surr.)	1	%	78	77	43	60
13C2-10:2 FTSA (surr.)	1	%	122	87	63	77
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 21_16_05_SS_ Primary_EUF	SX_IB_202205 21_16_07_SS_ Duplicate_EUF	SX_OB_20220 521_20_02_SS_ Primary_EUF	SX_IB_202205 21_20_13_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- My0053761	M22- My0053762	M22- My0053763	M22- My0053764
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.1
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	%	95	87	80	77
13C5-PFPeA (surr.)	1	%	103	87	89	80
13C5-PFHxA (surr.)	1	%	107	82	73	50
13C4-PFHpA (surr.)	1	%	100	100	88	88
13C8-PFOA (surr.)	1	%	144	137	101	123
13C5-PFNA (surr.)	1	%	116	111	102	102
13C6-PFDA (surr.)	1	%	111	140	132	96
13C2-PFUnDA (surr.)	1	%	143	136	114	122
13C2-PFDoDA (surr.)	1	%	111	97	82	93
13C2-PFTeDA (surr.)	1	%	119	98	113	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	%	105	82	84	76
D3-N-MeFOSA (surr.)	1	%	145	75	137	189
D5-N-EtFOSA (surr.)	1	%	145	63	178	182
D7-N-MeFOSE (surr.)	1	%	150	98	124	110
D9-N-EtFOSE (surr.)	1	%	140	100	120	114
D5-N-EtFOSAA (surr.)	1	%	139	116	102	92
D3-N-MeFOSAA (surr.)	1	%	138	114	62	31

Client Sample ID			SX_IB_202205 21_16_05_SS Primary_EUF	SX_IB_202205 21_16_07_SS Duplicate_EUF	SX_OB_20220 521_20_02_SS _Primary_EUF	SX_IB_202205 21_20_13_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- My0053761	M22- My0053762	M22- My0053763	M22- My0053764
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	145	126	113	81
18O2-PFHxS (surr.)	1	%	117	140	95	117
13C8-PFOS (surr.)	1	%	108	108	82	91
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	145	146	103	108
13C2-6:2 FTSA (surr.)	1	%	177	51	64	116
13C2-8:2 FTSA (surr.)	1	%	86	57	42	61
13C2-10:2 FTSA (surr.)	1	%	98	88	62	70
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 21_20_15_SS Duplicate_EUF	SX_OB_20220 522_00_03_SS _Primary_EUF	SX_OB_20220 522_04_05_SS _Primary_EUF	SX_IB_202205 22_08_11_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- My0053765	M22- My0053766	M22- My0053767	M22- My0053768
Date Sampled			May 21, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.1

Client Sample ID			SX_IB_202205 21_20_15_SS Duplicate_EUF	SX_OB_20220 522_00_03_SS Primary_EUF	SX_OB_20220 522_04_05_SS Primary_EUF	SX_IB_202205 22_08_11_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- My0053765	M22- My0053766	M22- My0053767	M22- My0053768
Date Sampled			May 21, 2022	May 22, 2022	May 22, 2022	May 22, 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	%	86	79	82	98
13C5-PFPeA (surr.)	1	%	78	77	102	92
13C5-PFHxA (surr.)	1	%	57	99	92	103
13C4-PFHpA (surr.)	1	%	89	82	91	100
13C8-PFOA (surr.)	1	%	133	94	90	145
13C5-PFNA (surr.)	1	%	110	92	96	144
13C6-PFDA (surr.)	1	%	112	97	105	169
13C2-PFUnDA (surr.)	1	%	109	99	106	178
13C2-PFDoDA (surr.)	1	%	85	74	79	128
13C2-PFTeDA (surr.)	1	%	124	77	92	174
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	%	94	68	72	137
D3-N-MeFOSA (surr.)	1	%	101	104	149	130
D5-N-EtFOSA (surr.)	1	%	90	121	160	129
D7-N-MeFOSE (surr.)	1	%	130	83	107	153
D9-N-EtFOSE (surr.)	1	%	135	85	99	179
D5-N-EtFOSAA (surr.)	1	%	119	76	83	173
D3-N-MeFOSAA (surr.)	1	%	120	52	89	165
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoronanesulfonic 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_IB_202205 21_20_15_SS Duplicate_EUF	SX_OB_20220 522_00_03_SS _Primary_EUF	SX_OB_20220 522_04_05_SS _Primary_EUF	SX_IB_202205 22_08_11_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- My0053765	M22- My0053766	M22- My0053767	M22- My0053768
Date Sampled			May 21, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	86	105	109	138
18O2-PFHxS (surr.)	1	%	129	89	106	145
13C8-PFOS (surr.)	1	%	97	76	79	132
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	127	82	70	174
13C2-6:2 FTSA (surr.)	1	%	165	67	106	169
13C2-8:2 FTSA (surr.)	1	%	71	69	52	95
13C2-10:2 FTSA (surr.)	1	%	79	56	72	101
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 22_08_12_SS Duplicate_EUF	SX_OB_20220 522_11_51_SS _Primary_EUF	SX_OB_20220 522_15_48_SS _Triplicate_EU F	SX_OB_20220 522_15_54_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- My0053769	M22- My0053770	M22- My0053771	M22- My0053772
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.1	5.1	5.0	5.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_IB_202205 22_08_12_SS Duplicate_EUF	SX_OB_20220 522_11_51_SS _Primary_EUF	SX_OB_20220 522_15_48_SS _Triplicate_EU F	SX_OB_20220 522_15_54_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- My0053769	M22- My0053770	M22- My0053771	M22- My0053772
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	75	80	79	71
13C5-PFPeA (surr.)	1	%	73	87	95	89
13C5-PFHxA (surr.)	1	%	110	84	81	104
13C4-PFHpA (surr.)	1	%	75	87	91	74
13C8-PFOA (surr.)	1	%	116	93	86	76
13C5-PFNA (surr.)	1	%	118	89	97	78
13C6-PFDA (surr.)	1	%	117	81	89	78
13C2-PFUnDA (surr.)	1	%	141	103	105	89
13C2-PFDoDA (surr.)	1	%	104	85	92	47
13C2-PFTeDA (surr.)	1	%	164	104	113	47
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	%	108	91	87	49
D3-N-MeFOSA (surr.)	1	%	137	150	98	83
D5-N-EtFOSA (surr.)	1	%	147	168	110	69
D7-N-MeFOSE (surr.)	1	%	141	114	133	58
D9-N-EtFOSE (surr.)	1	%	146	108	120	57
D5-N-EtFOSAA (surr.)	1	%	142	104	104	49
D3-N-MeFOSAA (surr.)	1	%	153	120	122	68
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	99	109	103	94
18O2-PFHxS (surr.)	1	%	102	79	101	79
13C8-PFOS (surr.)	1	%	119	96	93	75

Client Sample ID			SX_IB_202205 22_08_12_SS Duplicate_EUF	SX_OB_20220 522_11_51_SS Primary_EUF	SX_OB_20220 522_15_48_SS TriPLICATE_EU F	SX_OB_20220 522_15_54_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- My0053769	M22- My0053770	M22- My0053771	M22- My0053772
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	140	81	65	65
13C2-6:2 FTSA (surr.)	1	%	168	56	78	54
13C2-8:2 FTSA (surr.)	1	%	77	67	68	58
13C2-10:2 FTSA (surr.)	1	%	123	64	72	29
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 522_20_13_SS Primary_EUF	SX_OB_20220 523_00_18_SS Primary_EUF	SX_OB_20220 523_04_18_SS Primary_EUF	SX_IB_202205 21_08_11_SS TriPLICATE_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0053773	M22- My0053774	M22- My0053775	M22- My0053776
Date Sampled			May 22, 2022	May 23, 2022	May 23, 2022	May 21, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.9
pH (off)	0.1	pH Units	5.0	5.0	5.0	8.1
Perfluoroalkyl carboxylic acids (PFCA)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	81	72	81	91
13C5-PFPeA (surr.)	1	%	89	85	78	100

Client Sample ID			SX_OB_20220 522_20_13_SS _Primary_EUF	SX_OB_20220 523_00_18_SS _Primary_EUF	SX_OB_20220 523_04_18_SS _Primary_EUF	SX_IB_202205 21_08_11_SS _Triplicate_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0053773	M22- My0053774	M22- My0053775	M22- My0053776
Date Sampled			May 22, 2022	May 23, 2022	May 23, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFHxA (surr.)	1	%	122	68	83	87
13C4-PFHpA (surr.)	1	%	84	82	82	103
13C8-PFOA (surr.)	1	%	89	89	98	124
13C5-PFNA (surr.)	1	%	90	86	101	117
13C6-PFDA (surr.)	1	%	97	95	121	138
13C2-PFUnDA (surr.)	1	%	37	92	123	140
13C2-PFDoDA (surr.)	1	%	76	61	91	109
13C2-PFTeDA (surr.)	1	%	91	77	98	117
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	69	64	86	116
D3-N-MeFOSA (surr.)	1	%	121	67	117	97
D5-N-EtFOSA (surr.)	1	%	152	70	121	102
D7-N-MeFOSE (surr.)	1	%	92	99	118	105
D9-N-EtFOSE (surr.)	1	%	94	82	117	105
D5-N-EtFOSAA (surr.)	1	%	76	82	111	160
D3-N-MeFOSAA (surr.)	1	%	101	64	138	143
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	107	87	114	98
18O2-PFHxS (surr.)	1	%	96	99	107	144
13C8-PFOS (surr.)	1	%	96	87	93	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 522_20_13_SS _Primary_EUF	SX_OB_20220 523_00_18_SS _Primary_EUF	SX_OB_20220 523_04_18_SS _Primary_EUF	SX_IB_202205 21_08_11_SS _TriPLICATE_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0053773	M22- My0053774	M22- My0053775	M22- My0053776
Date Sampled			May 22, 2022	May 23, 2022	May 23, 2022	May 21, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-4:2 FTSA (surr.)	1	%	70	72	84	147
13C2-6:2 FTSA (surr.)	1	%	76	104	71	138
13C2-8:2 FTSA (surr.)	1	%	66	56	65	73
13C2-10:2 FTSA (surr.)	1	%	77	63	66	89
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 21_08_34_SS _Primary_EUF	SX_IB_202205 21_11_52_SS _Primary_EUF	SX_OB_20220 521_12_00_SS _Primary_EUF	SX_IB_202205 21_16_05_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- My0053777	M22- My0053778	M22- My0053779	M22- My0053780
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	8.3	8.4	8.5	8.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	91	98	73	92
13C5-PFPeA (surr.)	1	%	84	79	89	92
13C5-PFHxA (surr.)	1	%	70	72	76	76
13C4-PFHpA (surr.)	1	%	108	118	98	112
13C8-PFOA (surr.)	1	%	139	117	84	122
13C5-PFNA (surr.)	1	%	119	116	100	119
13C6-PFDA (surr.)	1	%	139	110	39	142
13C2-PFUnDA (surr.)	1	%	120	109	93	110
13C2-PFDoDA (surr.)	1	%	105	80	83	129
13C2-PFTeDA (surr.)	1	%	107	55	116	100

Client Sample ID			SX_IB_202205 21_08_34_SS_ Primary_EUF	SX_IB_202205 21_11_52_SS_ Primary_EUF	SX_OB_20220 521_12_00_SS_ Primary_EUF	SX_IB_202205 21_16_05_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- My0053777	M22- My0053778	M22- My0053779	M22- My0053780
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 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	%	109	84	104	122
D3-N-MeFOSA (surr.)	1	%	155	55	109	120
D5-N-EtFOSA (surr.)	1	%	143	67	113	133
D7-N-MeFOSE (surr.)	1	%	114	70	109	128
D9-N-EtFOSE (surr.)	1	%	112	69	97	147
D5-N-EtFOSAA (surr.)	1	%	108	49	74	112
D3-N-MeFOSAA (surr.)	1	%	145	41	135	117
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	100	92	79	116
18O2-PFHxS (surr.)	1	%	118	130	93	123
13C8-PFOS (surr.)	1	%	102	100	100	118
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	140	157	91	116
13C2-6:2 FTSA (surr.)	1	%	80	131	76	118
13C2-8:2 FTSA (surr.)	1	%	72	106	79	94
13C2-10:2 FTSA (surr.)	1	%	75	82	116	101
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 21_16_07_SS Duplicate_EUF	SX_OB_20220 521_20_02_SS Primary_EUF	SX_IB_202205 21_20_13_SS Primary_EUF	SX_IB_202205 21_20_15_SS Duplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0053781	M22- My0053782	M22- My0053783	M22- My0053784
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	8.8	8.6	8.9	8.9
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 (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	82	75	90	100
13C5-PFPeA (surr.)	1	%	71	82	52	103
13C5-PFHxA (surr.)	1	%	101	76	49	68
13C4-PFHpA (surr.)	1	%	109	92	120	127
13C8-PFOA (surr.)	1	%	132	87	111	140
13C5-PFNA (surr.)	1	%	126	92	108	121
13C6-PFDA (surr.)	1	%	51	88	168	112
13C2-PFUnDA (surr.)	1	%	132	83	110	115
13C2-PFDoDA (surr.)	1	%	101	90	83	135
13C2-PFTTeDA (surr.)	1	%	125	97	66	106
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	%	123	108	78	124
D3-N-MeFOSA (surr.)	1	%	129	112	82	107
D5-N-EtFOSA (surr.)	1	%	138	110	83	116
D7-N-MeFOSE (surr.)	1	%	121	99	76	150
D9-N-EtFOSE (surr.)	1	%	109	96	85	157
D5-N-EtFOSAA (surr.)	1	%	99	107	93	111
D3-N-MeFOSAA (surr.)	1	%	129	67	111	116

Client Sample ID			SX_IB_20220521_16_07_SS_Duplicate_EUF	SX_OB_20220521_20_02_SS_Primary_EUF	SX_IB_20220521_20_13_SS_Primary_EUF	SX_IB_20220521_20_15_SS_Duplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-My0053781	M22-My0053782	M22-My0053783	M22-My0053784
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	95	84	64	101
18O2-PFHxS (surr.)	1	%	105	67	107	122
13C8-PFOS (surr.)	1	%	123	102	113	118
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	135	81	138	116
13C2-6:2 FTSA (surr.)	1	%	144	90	127	83
13C2-8:2 FTSA (surr.)	1	%	110	69	75	99
13C2-10:2 FTSA (surr.)	1	%	120	82	69	129
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_20220522_00_03_SS_Primary_EUF	SX_OB_20220522_04_05_SS_Primary_EUF	SX_IB_20220522_08_11_SS_Primary_EUF	SX_IB_20220522_08_12_SS_Duplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-My0053785	M22-My0053786	M22-My0053787	M22-My0053788
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	8.5	8.4	8.5	8.8

Client Sample ID			SX_OB_20220 522_00_03_SS _Primary_EUF	SX_OB_20220 522_04_05_SS _Primary_EUF	SX_IB_202205 22_08_11_SS _Primary_EUF	SX_IB_202205 22_08_12_SS _Duplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0053785	M22- My0053786	M22- My0053787	M22- My0053788
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	74	77	79	87
13C5-PFPeA (surr.)	1	%	87	82	80	70
13C5-PFHxA (surr.)	1	%	93	83	79	81
13C4-PFHpA (surr.)	1	%	87	90	100	109
13C8-PFOA (surr.)	1	%	88	83	143	113
13C5-PFNA (surr.)	1	%	107	102	123	106
13C6-PFDA (surr.)	1	%	77	83	136	116
13C2-PFUnDA (surr.)	1	%	49	94	146	90
13C2-PFDoDA (surr.)	1	%	80	85	89	86
13C2-PFTTeDA (surr.)	1	%	103	109	114	67
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	107	116	80
D3-N-MeFOSA (surr.)	1	%	107	91	116	108
D5-N-EtFOSA (surr.)	1	%	100	100	112	118
D7-N-MeFOSE (surr.)	1	%	92	124	111	108
D9-N-EtFOSE (surr.)	1	%	99	101	113	85
D5-N-EtFOSAA (surr.)	1	%	123	110	125	113
D3-N-MeFOSAA (surr.)	1	%	102	115	143	89
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 522_00_03_SS _Primary_EUF	SX_OB_20220 522_04_05_SS _Primary_EUF	SX_IB_202205 22_08_11_SS _Primary_EUF	SX_IB_202205 22_08_12_SS _Duplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0053785	M22- My0053786	M22- My0053787	M22- My0053788
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSA)s						
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	%	97	108	137	113
18O2-PFHxS (surr.)	1	%	76	112	139	104
13C8-PFOS (surr.)	1	%	91	101	97	94
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)s						
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	%	66	69	148	128
13C2-6:2 FTSA (surr.)	1	%	69	80	99	107
13C2-8:2 FTSA (surr.)	1	%	90	82	69	60
13C2-10:2 FTSA (surr.)	1	%	85	114	83	93
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 522_11_51_SS _Primary_EUF	SX_OB_20220 522_15_48_SS _Triplicate_EU F	SX_OB_20220 522_15_54_SS _Primary_EUF	SX_OB_20220 522_20_13_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- My0053789	M22- My0053790	M22- My0053791	M22- My0053792
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9	5.9	5.9
pH (off)	0.1	pH Units	8.7	9.0	9.0	8.5
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

Client Sample ID			SX_OB_20220 522_11_51_SS _Primary_EUF	SX_OB_20220 522_15_48_SS _TriPLICATE_EU F	SX_OB_20220 522_15_54_SS _Primary_EUF	SX_OB_20220 522_20_13_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- My0053789	M22- My0053790	M22- My0053791	M22- My0053792
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
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	%	77	76	95	97
13C5-PFPeA (surr.)	1	%	88	95	116	104
13C5-PFHxA (surr.)	1	%	90	85	98	85
13C4-PFHpA (surr.)	1	%	91	86	103	105
13C8-PFOA (surr.)	1	%	86	86	104	113
13C5-PFNA (surr.)	1	%	110	93	105	108
13C6-PFDA (surr.)	1	%	97	73	122	123
13C2-PFUnDA (surr.)	1	%	86	98	113	100
13C2-PFDoDA (surr.)	1	%	91	78	142	124
13C2-PFTeDA (surr.)	1	%	99	75	111	109
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	%	98	100	125	116
D3-N-MeFOSA (surr.)	1	%	94	90	88	116
D5-N-EtFOSA (surr.)	1	%	97	86	109	130
D7-N-MeFOSE (surr.)	1	%	111	96	141	135
D9-N-EtFOSE (surr.)	1	%	101	94	152	148
D5-N-EtFOSAA (surr.)	1	%	120	122	126	107
D3-N-MeFOSAA (surr.)	1	%	100	25	111	119
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	98	100	107	110
18O2-PFHxS (surr.)	1	%	86	78	104	110
13C8-PFOS (surr.)	1	%	93	93	104	111

Client Sample ID			SX_OB_20220522_11_51_SS_Primary_EUF	SX_OB_20220522_15_48_SS_Triplicate_EUF	SX_OB_20220522_15_54_SS_Primary_EUF	SX_OB_20220522_20_13_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-My0053789	M22-My0053790	M22-My0053791	M22-My0053792
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	82	78	78	138
13C2-6:2 FTSA (surr.)	1	%	124	89	65	98
13C2-8:2 FTSA (surr.)	1	%	64	65	73	66
13C2-10:2 FTSA (surr.)	1	%	90	101	133	124
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_20220523_00_18_SS_Primary_EUF	SX_OB_20220523_04_18_SS_Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-My0053793	M22-My0053794
Date Sampled			May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit		
AUS Leaching Procedure				
Leachate Fluid ^{C01}		comment	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.9	5.9
pH (off)	0.1	pH Units	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 (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	78	74

Client Sample ID			SX_OB_20220 523_00_18_SS _Primary_EUF	SX_OB_20220 523_04_18_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0053793	M22- My0053794
Date Sampled			May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
13C5-PFPeA (surr.)	1	%	81	90
13C5-PFHxA (surr.)	1	%	67	75
13C4-PFHpA (surr.)	1	%	97	77
13C8-PFOA (surr.)	1	%	117	88
13C5-PFNA (surr.)	1	%	109	99
13C6-PFDA (surr.)	1	%	114	83
13C2-PFUnDA (surr.)	1	%	55	45
13C2-PFDoDA (surr.)	1	%	105	83
13C2-PFTeDA (surr.)	1	%	125	111
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	%	115	99
D3-N-MeFOSA (surr.)	1	%	118	108
D5-N-EtFOSA (surr.)	1	%	113	111
D7-N-MeFOSE (surr.)	1	%	101	110
D9-N-EtFOSE (surr.)	1	%	101	99
D5-N-EtFOSAA (surr.)	1	%	118	111
D3-N-MeFOSAA (surr.)	1	%	131	81
Perfluoroalkyl sulfonic acids (PFSA)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	97	100
18O2-PFHxS (surr.)	1	%	90	81
13C8-PFOS (surr.)	1	%	104	103

Client Sample ID			SX_OB_20220 523_00_18_SS _Primary_EUF	SX_OB_20220 523_04_18_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0053793	M22- My0053794
Date Sampled			May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit		
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	88	69
13C2-6:2 FTSA (surr.)	1	%	92	64
13C2-8:2 FTSA (surr.)	1	%	78	75
13C2-10:2 FTSA (surr.)	1	%	130	96
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
AUS Leaching Procedure			
pH (initial) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	May 23, 2022	0 Days
pH (Leachate fluid) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	May 23, 2022	0 Days
pH (off) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	May 23, 2022	0 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	

Company Name: Agon Environmental Pty Ltd - VIC
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Fullarton
SA 5063
Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

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Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_IB_20220521_08_11_SS_Triplicate_EUF	May 21, 2022	8:11AM	Soil	M22-My0053736		X	X	X
2	SX_IB_20220521_08_34_SS_Primary_EUF	May 21, 2022	8:34AM	Soil	M22-My0053737		X	X	X
3	SX_IB_20220521_11_52_SS_Primary_EUF	May 21, 2022	11:52AM	Soil	M22-My0053738		X	X	X
4	SX_OB_20220521_12_00_S	May 21, 2022	12:00PM	Soil	M22-My0053739		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
5	SX_IB_202205 21_12_19_SR _Rinsate_EUF	May 21, 2022	12:19PM	Water	M22- My0053740			X	
6	SX_IB_202205 21_12_22_SB _Blank_EUF	May 21, 2022	12:22PM	Water	M22- My0053741			X	
7	SX_IB_202205 21_16_05_SS _Primary_EUF	May 21, 2022	4:05PM	Soil	M22- My0053742		X	X	X
8	SX_IB_202205 21_16_07_SS _Duplicate_EU	May 21, 2022	4:07PM	Soil	M22- My0053743		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Duplicate_EU F								
9	SX_OB_20220521_20_02_SS_Primary_EU F	May 21, 2022	8:02PM	Soil	M22-My0053744		X	X	X
10	SX_IB_20220521_20_13_SS_Primary_EU F	May 21, 2022	8:13PM	Soil	M22-My0053745		X	X	X
11	SX_IB_20220521_20_15_SS_Duplicate_EU F	May 21, 2022	8:15PM	Soil	M22-My0053746		X	X	X
12	SX_OB_20220	May 22, 2022	12:03AM	Soil	M22-		X	X	X

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	522_00_03_S S_Primary_EU F				My0053747				
13	SX_OB_20220 522_04_05_S S_Primary_EU F	May 22, 2022	4:05AM	Soil	M22- My0053748		X	X	X
14	SX_IB_202205 22_08_11_SS _Primary_EUF	May 22, 2022	8:11AM	Soil	M22- My0053749		X	X	X
15	SX_IB_202205 22_08_12_SS _Duplicate_EU F	May 22, 2022	8:12AM	Soil	M22- My0053750		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
16	SX_OB_20220522_11_51_S_S_Primary_EU_F	May 22, 2022	11:51AM	Soil	M22-My0053751		X	X	X
17	SX_OB_20220522_15_48_S_S_Triplicate_EUF	May 22, 2022	3:48PM	Soil	M22-My0053752		X	X	X
18	SX_OB_20220522_15_54_S_S_Primary_EU_F	May 22, 2022	3:54PM	Soil	M22-My0053753		X	X	X
19	SX_OB_20220522_20_13_S	May 22, 2022	8:13PM	Soil	M22-My0053754		X	X	X

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

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
20	SX_OB_20220 523_00_18_S S_Primary_EU F	May 23, 2022	12:18AM	Soil	M22- My0053755		X	X	X
21	SX_OB_20220 523_04_18_S S_Primary_EU F	May 23, 2022	4:18AM	Soil	M22- My0053756		X	X	X
22	SX_IB_202205 21_08_11_SS _TriPLICATE_EU F	May 21, 2022	8:11AM	AUS Leachate - pH 5.0	M22- My0053757	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
23	SX_IB_20220521_08_34_SS_Primary_EUF	May 21, 2022	8:34AM	AUS Leachate - pH 5.0	M22-My0053758	X		X	
24	SX_IB_20220521_11_52_SS_Primary_EUF	May 21, 2022	11:52AM	AUS Leachate - pH 5.0	M22-My0053759	X		X	
25	SX_OB_20220521_12_00_S_S_Primary_EUF	May 21, 2022	12:00PM	AUS Leachate - pH 5.0	M22-My0053760	X		X	
26	SX_IB_20220521_16_05_SS_Primary_EUF	May 21, 2022	4:05PM	AUS Leachate - pH 5.0	M22-My0053761	X		X	
27	SX_IB_202205	May 21, 2022	4:07PM	AUS Leachate	M22-	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_16_07_SS Duplicate_EU F			- pH 5.0	My0053762				
28	SX_OB_20220521_20_02_SS_Primary_EU F	May 21, 2022	8:02PM	AUS Leachate - pH 5.0	M22-My0053763	X		X	
29	SX_IB_20220521_20_13_SS_Primary_EUF	May 21, 2022	8:13PM	AUS Leachate - pH 5.0	M22-My0053764	X		X	
30	SX_IB_20220521_20_15_SS_Duplicate_EU F	May 21, 2022	8:15PM	AUS Leachate - pH 5.0	M22-My0053765	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
31	SX_OB_20220522_00_03_S_S_Primary_EU_F	May 22, 2022	12:03AM	AUS Leachate - pH 5.0	M22-My0053766	X		X	
32	SX_OB_20220522_04_05_S_S_Primary_EU_F	May 22, 2022	4:05AM	AUS Leachate - pH 5.0	M22-My0053767	X		X	
33	SX_IB_20220522_08_11_SS_Primary_EUF	May 22, 2022	8:11AM	AUS Leachate - pH 5.0	M22-My0053768	X		X	
34	SX_IB_20220522_08_12_SS_Duplicate_EU	May 22, 2022	8:12AM	AUS Leachate - pH 5.0	M22-My0053769	X		X	

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

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	F								
35	SX_OB_20220522_11_51_S_S_Primary_EU_F	May 22, 2022	11:51AM	AUS Leachate - pH 5.0	M22-My0053770	X		X	
36	SX_OB_20220522_15_48_S_S_Triplicate_EUF	May 22, 2022	3:48PM	AUS Leachate - pH 5.0	M22-My0053771	X		X	
37	SX_OB_20220522_15_54_S_S_Primary_EU_F	May 22, 2022	3:54PM	AUS Leachate - pH 5.0	M22-My0053772	X		X	
38	SX_OB_20220	May 22, 2022	8:13PM	AUS Leachate	M22-	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
38	SX_OB_20220522_20_13_S_S_Primary_EU_F	May 22, 2022	8:13PM	AUS Leachate - pH 5.0	M22-My0053773				
39	SX_OB_20220523_00_18_S_S_Primary_EU_F	May 23, 2022	12:18AM	AUS Leachate - pH 5.0	M22-My0053774	X		X	
40	SX_OB_20220523_04_18_S_S_Primary_EU_F	May 23, 2022	4:18AM	AUS Leachate - pH 5.0	M22-My0053775	X		X	
41	SX_IB_20220521_08_11_SS	May 21, 2022	8:11AM	AUS Leachate - Reagent	M22-My0053776	X		X	

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

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Triplicate_EU F			Water					
42	SX_IB_202205 21_08_34_SS _Primary_EUF	May 21, 2022	8:34AM	AUS Leachate - Reagent Water	M22- My0053777	X		X	
43	SX_IB_202205 21_11_52_SS _Primary_EUF	May 21, 2022	11:52AM	AUS Leachate - Reagent Water	M22- My0053778	X		X	
44	SX_OB_20220 521_12_00_S S_Primary_EU F	May 21, 2022	12:00PM	AUS Leachate - Reagent Water	M22- My0053779	X		X	
45	SX_IB_202205 21_16_05_SS	May 21, 2022	4:05PM	AUS Leachate - Reagent	M22- My0053780	X		X	

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

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_16_05_SS _Primary_EUF			- Reagent Water	My0053780				
46	SX_IB_202205 21_16_07_SS _Duplicate_EU F	May 21, 2022	4:07PM	AUS Leachate - Reagent Water	M22- My0053781	X		X	
47	SX_OB_20220 521_20_02_S S_Primary_EU F	May 21, 2022	8:02PM	AUS Leachate - Reagent Water	M22- My0053782	X		X	
48	SX_IB_202205 21_20_13_SS _Primary_EUF	May 21, 2022	8:13PM	AUS Leachate - Reagent Water	M22- My0053783	X		X	
49	SX_IB_202205	May 21, 2022	8:15PM	AUS Leachate	M22-	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	890748	Due:	May 30, 2022
Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_20_15_SS Duplicate_EU F			- Reagent Water	My0053784				
50	SX_OB_20220 522_00_03_S S_Primary_EU F	May 22, 2022	12:03AM	AUS Leachate - Reagent Water	M22- My0053785	X		X	
51	SX_OB_20220 522_04_05_S S_Primary_EU F	May 22, 2022	4:05AM	AUS Leachate - Reagent Water	M22- My0053786	X		X	
52	SX_IB_202205 22_08_11_SS _Primary_EUF	May 22, 2022	8:11AM	AUS Leachate - Reagent Water	M22- My0053787	X		X	

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

Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
53	SX_IB_20220522_08_12_SS_Duplicate_EU_F	May 22, 2022	8:12AM	AUS Leachate - Reagent Water	M22-My0053788	X		X	
54	SX_OB_20220522_11_51_SS_Primary_EU_F	May 22, 2022	11:51AM	AUS Leachate - Reagent Water	M22-My0053789	X		X	
55	SX_OB_20220522_15_48_SS_Triplicate_EUF	May 22, 2022	3:48PM	AUS Leachate - Reagent Water	M22-My0053790	X		X	
56	SX_OB_20220522_15_54_SS	May 22, 2022	3:54PM	AUS Leachate - Reagent	M22-My0053791	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	890748	Due:	May 30, 2022
Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
57	SX_OB_20220 522_20_13_S S_Primary_EU F	May 22, 2022	8:13PM	AUS Leachate - Reagent Water	M22- My0053792	X		X	
58	SX_OB_20220 523_00_18_S S_Primary_EU F	May 23, 2022	12:18AM	AUS Leachate - Reagent Water	M22- My0053793	X		X	
59	SX_OB_20220 523_04_18_S S_Primary_EU F	May 23, 2022	4:18AM	AUS Leachate - Reagent Water	M22- My0053794	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	890748	Due:	May 30, 2022
Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IMRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217				
Brisbane Laboratory - NATA # 1261 Site # 20794				
Mayfield Laboratory - NATA # 1261 Site # 25079				
Perth Laboratory - NATA # 2377 Site # 2370				
External Laboratory				
Test Counts	38	19	59	19

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05		0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	84		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	78		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	67		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	70		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	87		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	66		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	63		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	76		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	84		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	71		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	71		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code		
LCS - % Recovery									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)	%	71			50-150	Pass			
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	69			50-150	Pass			
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	84			50-150	Pass			
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	58			50-150	Pass			
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	61			50-150	Pass			
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	63			50-150	Pass			
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	64			50-150	Pass			
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA)									
Perfluorobutanesulfonic acid (PFBS)	%	61			50-150	Pass			
Perfluorononanesulfonic acid (PFNS)	%	82			50-150	Pass			
Perfluoropropanesulfonic acid (PFPrS)	%	92			50-150	Pass			
Perfluoropentanesulfonic acid (PFPeS)	%	86			50-150	Pass			
Perfluorohexanesulfonic acid (PFHxS)	%	78			50-150	Pass			
Perfluoroheptanesulfonic acid (PFHpS)	%	92			50-150	Pass			
Perfluorooctanesulfonic acid (PFOS)	%	85			50-150	Pass			
Perfluorodecanesulfonic acid (PFDS)	%	69			50-150	Pass			
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	80			50-150	Pass			
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	80			50-150	Pass			
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	77			50-150	Pass			
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	73			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-My0053771	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances									
				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-My0053771	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0053771	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0053771	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0053771	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0053771	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-My0053771	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0053771	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0053771	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0053771	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-My0053773	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0053773	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0053773	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0053773	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0053773	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0053773	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0053773	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0053773	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0053773	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0053773	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-My0053774	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0053774	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0053774	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0053774	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0053774	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0053774	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0053774	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0053774	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0053774	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0053774	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-My0053782	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0053782	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0053782	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0053782	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0053782	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0053782	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0053782	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0053782	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0053782	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0053782	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-My0053783	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0053783	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0053783	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0053783	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0053783	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0053783	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0053783	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0053783	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0053783	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0053783	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-My0053785	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0053785	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0053785	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0053785	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0053785	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0053785	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0053785	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0053785	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0053785	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0053785	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0053785	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:

Catherine Wilson	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS
Mary Makarios	Senior Analyst-Sample Properties



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Agon Environmental Pty Ltd - VIC
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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 **890748-S**
Project name **20220523050323-Eurofin-14**
Project ID **JC0927**
Received Date **May 23, 2022**

Client Sample ID			SX_IB_202205 21_08_11_SS TriPLICATE_EUF	SX_IB_202205 21_08_34_SS Primary_EUF	SX_IB_202205 21_11_52_SS Primary_EUF	SX_OB_20220 521_12_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053736	M22- My0053737	M22- My0053738	M22- My0053739
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_IB_202205 21_08_11_SS Triuplicate_EUF	SX_IB_202205 21_08_34_SS Primary_EUF	SX_IB_202205 21_11_52_SS Primary_EUF	SX_OB_20220 521_12_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053736	M22- My0053737	M22- My0053738	M22- My0053739
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 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	%	139	75	76	95
Toluene-d8 (surr.)	1	%	142	77	76	95
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

Client Sample ID			SX_IB_202205 21_08_11_SS TriPLICATE_EUF	SX_IB_202205 21_08_34_SS Primary_EUF	SX_IB_202205 21_11_52_SS Primary_EUF	SX_OB_20220 521_12_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053736	M22- My0053737	M22- My0053738	M22- My0053739
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	83	79	81	71
p-Terphenyl-d14 (surr.)	1	%	116	88	110	110
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	64	70	70	53
Tetrachloro-m-xylene (surr.)	1	%	126	93	104	114

Client Sample ID			SX_IB_202205 21_08_11_SS TriPLICATE_EUF	SX_IB_202205 21_08_34_SS Primary_EUF	SX_IB_202205 21_11_52_SS Primary_EUF	SX_OB_20220 521_12_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053736	M22- My0053737	M22- My0053738	M22- My0053739
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 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	%	64	70	70	53
Tetrachloro-m-xylene (surr.)	1	%	126	93	104	114
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	%	80	79	84	83
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	130	110	120
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.8	7.9	7.1	7.3
% Moisture						
% Moisture	1	%	30	27	27	30
Heavy Metals						
Arsenic	2	mg/kg	35	15	14	29
Cadmium	1	mg/kg	< 1	< 1	< 1	< 1
Chromium	5	mg/kg	130	110	82	72
Copper	5	mg/kg	63	55	45	45
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 21_08_11_SS TriPLICATE_EUF	SX_IB_202205 21_08_34_SS Primary_EUF	SX_IB_202205 21_11_52_SS Primary_EUF	SX_OB_20220 521_12_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053736	M22- My0053737	M22- My0053738	M22- My0053739
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	190	160	130	110
Selenium	5	mg/kg	< 5	< 5	< 5	< 5
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	120	95	81	70
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 (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	88	85	81	77
13C5-PFPeA (surr.)	1	%	92	88	83	81
13C5-PFHxA (surr.)	1	%	97	90	87	84
13C4-PFHpA (surr.)	1	%	93	89	83	81
13C8-PFOA (surr.)	1	%	97	91	88	85
13C5-PFNA (surr.)	1	%	98	90	85	90
13C6-PFDA (surr.)	1	%	108	102	96	93
13C2-PFUnDA (surr.)	1	%	118	106	105	92
13C2-PFDoDA (surr.)	1	%	102	92	91	84
13C2-PFTeDA (surr.)	1	%	93	87	83	78
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	%	114	107	104	98
D3-N-MeFOSA (surr.)	1	%	119	106	99	103
D5-N-EtFOSA (surr.)	1	%	102	96	92	95
D7-N-MeFOSE (surr.)	1	%	88	84	79	78
D9-N-EtFOSE (surr.)	1	%	95	87	85	82
D5-N-EtFOSAA (surr.)	1	%	126	121	116	105
D3-N-MeFOSAA (surr.)	1	%	107	100	105	72

Client Sample ID			SX_IB_202205 21_08_11_SS TriPLICATE_EUF	SX_IB_202205 21_08_34_SS Primary_EUF	SX_IB_202205 21_11_52_SS Primary_EUF	SX_OB_20220 521_12_00_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053736	M22- My0053737	M22- My0053738	M22- My0053739
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	93	81	88	87
18O2-PFHxS (surr.)	1	%	90	87	84	80
13C8-PFOS (surr.)	1	%	94	89	83	86
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	98	93	93	80
13C2-6:2 FTSA (surr.)	1	%	87	87	83	81
13C2-8:2 FTSA (surr.)	1	%	124	120	107	124
13C2-10:2 FTSA (surr.)	1	%	121	115	114	80
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_IB_202205 21_16_05_SS Primary_EUF	SX_IB_202205 21_16_07_SS Duplicate_EUF	SX_OB_20220 521_20_02_SS _Primary_EUF	SX_IB_202205 21_20_13_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053742	M22- My0053743	M22- My0053744	M22- My0053745
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 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

Client Sample ID			SX_IB_202205 21_16_05_SS Primary_EUF	SX_IB_202205 21_16_07_SS Duplicate_EUF	SX_OB_20220 521_20_02_SS _Primary_EUF	SX_IB_202205 21_20_13_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053742	M22- My0053743	M22- My0053744	M22- My0053745
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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
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

Client Sample ID			SX_IB_202205 21_16_05_SS Primary_EUF	SX_IB_202205 21_16_07_SS Duplicate_EUF	SX_OB_20220 521_20_02_SS _Primary_EUF	SX_IB_202205 21_20_13_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053742	M22- My0053743	M22- My0053744	M22- My0053745
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	70	67	64	81
Toluene-d8 (surr.)	1	%	66	66	65	78
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	%	98	90	97	59
p-Terphenyl-d14 (surr.)	1	%	135	129	144	83
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

Client Sample ID			SX_IB_202205 21_16_05_SS Primary_EUF	SX_IB_202205 21_16_07_SS Duplicate_EUF	SX_OB_20220 521_20_02_SS _Primary_EUF	SX_IB_202205 21_20_13_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053742	M22- My0053743	M22- My0053744	M22- My0053745
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	%	141	121	150	94
Tetrachloro-m-xylene (surr.)	1	%	146	142	112	107
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	%	141	121	150	94
Tetrachloro-m-xylene (surr.)	1	%	146	142	112	107
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_IB_202205 21_16_05_SS_ Primary_EUF	SX_IB_202205 21_16_07_SS_ Duplicate_EUF	SX_OB_20220 521_20_02_SS_ Primary_EUF	SX_IB_202205 21_20_13_SS_ Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053742	M22- My0053743	M22- My0053744	M22- My0053745
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 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	%	104	110	102	74
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	390	150	190	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	9.0	8.4	8.3	7.5
% Moisture						
% Moisture	1	%	29	30	33	29
Heavy Metals						
Arsenic	2	mg/kg	42	40	31	61
Cadmium	1	mg/kg	< 1	< 1	< 1	< 1
Chromium	5	mg/kg	110	140	120	160
Copper	5	mg/kg	49	61	60	83
Lead	5	mg/kg	< 5	< 5	5.6	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	160	190	160	240
Selenium	5	mg/kg	< 5	< 5	< 5	< 5
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	92	120	100	130
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	86	106	68	91
13C5-PFPeA (surr.)	1	%	89	104	73	93
13C5-PFHxA (surr.)	1	%	92	107	74	92

Client Sample ID			SX_IB_202205 21_16_05_SS Primary_EUF	SX_IB_202205 21_16_07_SS Duplicate_EUF	SX_OB_20220 521_20_02_SS _Primary_EUF	SX_IB_202205 21_20_13_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053742	M22- My0053743	M22- My0053744	M22- My0053745
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	93	107	74	95
13C8-PFOA (surr.)	1	%	98	100	75	100
13C5-PFNA (surr.)	1	%	105	106	76	97
13C6-PFDA (surr.)	1	%	109	25	86	106
13C2-PFUnDA (surr.)	1	%	105	123	90	117
13C2-PFDoDA (surr.)	1	%	92	101	81	99
13C2-PFTeDA (surr.)	1	%	84	119	73	77
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	%	114	117	92	119
D3-N-MeFOSA (surr.)	1	%	122	127	100	119
D5-N-EtFOSA (surr.)	1	%	114	117	93	107
D7-N-MeFOSE (surr.)	1	%	92	62	73	85
D9-N-EtFOSE (surr.)	1	%	98	89	80	94
D5-N-EtFOSAA (surr.)	1	%	108	115	94	123
D3-N-MeFOSAA (surr.)	1	%	86	64	82	121
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	95	113	76	89
18O2-PFHxS (surr.)	1	%	90	115	73	96
13C8-PFOS (surr.)	1	%	91	119	76	96
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	98	84	73	100
13C2-6:2 FTSA (surr.)	1	%	90	69	75	98

Client Sample ID			SX_IB_202205 21_16_05_SS Primary_EUF	SX_IB_202205 21_16_07_SS Duplicate_EUF	SX_OB_20220 521_20_02_SS _Primary_EUF	SX_IB_202205 21_20_13_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053742	M22- My0053743	M22- My0053744	M22- My0053745
Date Sampled			May 21, 2022	May 21, 2022	May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-8:2 FTSA (surr.)	1	%	132	158	100	126
13C2-10:2 FTSA (surr.)	1	%	103	77	96	125
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_IB_202205 21_20_15_SS Duplicate_EUF	SX_OB_20220 522_00_03_SS _Primary_EUF	SX_OB_20220 522_04_05_SS _Primary_EUF	SX_IB_202205 22_08_11_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053746	M22- My0053747	M22- My0053748	M22- My0053749
Date Sampled			May 21, 2022	May 22, 2022	May 22, 2022	May 22, 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

Client Sample ID			SX_IB_202205 21_20_15_SS Duplicate_EUF	SX_OB_20220 522_00_03_SS Primary_EUF	SX_OB_20220 522_04_05_SS Primary_EUF	SX_IB_202205 22_08_11_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053746	M22- My0053747	M22- My0053748	M22- My0053749
Date Sampled			May 21, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	79	80	60	70
Toluene-d8 (surr.)	1	%	76	83	58	74

Client Sample ID			SX_IB_202205 21_20_15_SS Duplicate_EUF	SX_OB_20220 522_00_03_SS Primary_EUF	SX_OB_20220 522_04_05_SS Primary_EUF	SX_IB_202205 22_08_11_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053746	M22- My0053747	M22- My0053748	M22- My0053749
Date Sampled			May 21, 2022	May 22, 2022	May 22, 2022	May 22, 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	%	71	138	84	85
p-Terphenyl-d14 (surr.)	1	%	87	122	98	108
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

Client Sample ID			SX_IB_202205 21_20_15_SS Duplicate_EUF	SX_OB_20220 522_00_03_SS _Primary_EUF	SX_OB_20220 522_04_05_SS _Primary_EUF	SX_IB_202205 22_08_11_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053746	M22- My0053747	M22- My0053748	M22- My0053749
Date Sampled			May 21, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	97	94	77	95
Tetrachloro-m-xylene (surr.)	1	%	110	88	83	107
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	%	97	94	77	95
Tetrachloro-m-xylene (surr.)	1	%	110	88	83	107
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	%	63	66	54	80
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
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	8.5	7.7	7.5	8.9
% Moisture	1	%	29	31	31	29

Client Sample ID			SX_IB_202205 21_20_15_SS Duplicate_EUF	SX_OB_20220 522_00_03_SS Primary_EUF	SX_OB_20220 522_04_05_SS Primary_EUF	SX_IB_202205 22_08_11_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053746	M22- My0053747	M22- My0053748	M22- My0053749
Date Sampled			May 21, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	31	45	48	20
Cadmium	1	mg/kg	< 1	< 1	< 1	< 1
Chromium	5	mg/kg	160	120	100	120
Copper	5	mg/kg	83	56	56	55
Lead	5	mg/kg	< 5	5.8	< 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	240	150	160	160
Selenium	5	mg/kg	< 5	< 5	< 5	< 5
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	130	93	99	92
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 (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	72	80	84	73
13C5-PFPeA (surr.)	1	%	94	85	97	91
13C5-PFHxA (surr.)	1	%	80	88	80	82
13C4-PFHpA (surr.)	1	%	81	83	73	85
13C8-PFOA (surr.)	1	%	86	88	67	86
13C5-PFNA (surr.)	1	%	90	95	92	88
13C6-PFDA (surr.)	1	%	96	102	85	94
13C2-PFUnDA (surr.)	1	%	90	96	92	96
13C2-PFDoDA (surr.)	1	%	76	86	69	82
13C2-PFTeDA (surr.)	1	%	72	80	116	75
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	%	98	104	88	99
D3-N-MeFOSA (surr.)	1	%	82	106	78	80

Client Sample ID			SX_IB_202205 21_20_15_SS Duplicate_EUF	SX_OB_20220 522_00_03_SS _Primary_EUF	SX_OB_20220 522_04_05_SS _Primary_EUF	SX_IB_202205 22_08_11_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053746	M22- My0053747	M22- My0053748	M22- My0053749
Date Sampled			May 21, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	84	98	90	84
D7-N-MeFOSE (surr.)	1	%	76	83	19	76
D9-N-EtFOSE (surr.)	1	%	82	86	88	84
D5-N-EtFOSAA (surr.)	1	%	96	104	102	104
D3-N-MeFOSAA (surr.)	1	%	113	79	61	127
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	73	87	93	78
18O2-PFHxS (surr.)	1	%	81	82	91	80
13C8-PFOS (surr.)	1	%	84	84	87	83
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	107	84	75	106
13C2-6:2 FTSA (surr.)	1	%	98	84	64	98
13C2-8:2 FTSA (surr.)	1	%	126	121	94	118
13C2-10:2 FTSA (surr.)	1	%	102	87	71	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_IB_202205 22_08_12_SS Duplicate_EUF	SX_OB_20220 522_11_51_SS Primary_EUF	SX_OB_20220 522_15_48_SS Triuplicate_EU F	SX_OB_20220 522_15_54_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053750	M22- My0053751	M22- My0053752	M22- My0053753
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_IB_202205 22_08_12_SS Duplicate_EUF	SX_OB_20220 522_11_51_SS Primary_EUF	SX_OB_20220 522_15_48_SS TriPLICATE_EU F	SX_OB_20220 522_15_54_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053750	M22- My0053751	M22- My0053752	M22- My0053753
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 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	%	100	81	87	69
Toluene-d8 (surr.)	1	%	104	84	87	67
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_IB_202205 22_08_12_SS Duplicate_EUF	SX_OB_20220 522_11_51_SS Primary_EUF	SX_OB_20220 522_15_48_SS Triuplicate_EU F	SX_OB_20220 522_15_54_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053750	M22- My0053751	M22- My0053752	M22- My0053753
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 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	%	77	110	53	75
p-Terphenyl-d14 (surr.)	1	%	92	95	84	89
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
Dibutylchloredate (surr.)	1	%	73	99	56	58
Tetrachloro-m-xylene (surr.)	1	%	53	79	88	104
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
Dibutylchloredate (surr.)	1	%	73	99	56	58
Tetrachloro-m-xylene (surr.)	1	%	53	79	88	104

Client Sample ID			SX_IB_202205 22_08_12_SS Duplicate_EUF	SX_OB_20220 522_11_51_SS Primary_EUF	SX_OB_20220 522_15_48_SS TriPLICATE_EU F	SX_OB_20220 522_15_54_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053750	M22- My0053751	M22- My0053752	M22- My0053753
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 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	%	⁰⁰⁹ int	49	⁰⁰⁹ int	64
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 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	8.2	7.1	7.4	6.9
% Moisture	1	%	28	30	33	32
Heavy Metals						
Arsenic	2	mg/kg	22	50	140	49
Cadmium	1	mg/kg	< 1	< 1	< 1	< 1
Chromium	5	mg/kg	130	97	220	110
Copper	5	mg/kg	56	54	56	57
Lead	5	mg/kg	< 5	< 5	60	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	160	150	120	150
Selenium	5	mg/kg	< 5	< 5	< 5	< 5
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	100	96	72	110
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			SX_IB_202205 22_08_12_SS Duplicate_EUF	SX_OB_20220 522_11_51_SS Primary_EUF	SX_OB_20220 522_15_48_SS Triuplicate_EU F	SX_OB_20220 522_15_54_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053750	M22- My0053751	M22- My0053752	M22- My0053753
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 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	%	73	69	77	91
13C5-PFPeA (surr.)	1	%	92	87	80	91
13C5-PFHxA (surr.)	1	%	83	76	78	85
13C4-PFHpA (surr.)	1	%	84	76	77	85
13C8-PFOA (surr.)	1	%	88	82	65	76
13C5-PFNA (surr.)	1	%	91	84	90	79
13C6-PFDA (surr.)	1	%	93	90	74	89
13C2-PFUnDA (surr.)	1	%	93	84	91	78
13C2-PFDoDA (surr.)	1	%	77	77	75	79
13C2-PFTeDA (surr.)	1	%	74	72	107	76
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	%	94	92	80	117
D3-N-MeFOSA (surr.)	1	%	79	72	74	104
D5-N-EtFOSA (surr.)	1	%	80	78	93	128
D7-N-MeFOSE (surr.)	1	%	79	77	57	42
D9-N-EtFOSE (surr.)	1	%	83	83	78	76
D5-N-EtFOSAA (surr.)	1	%	95	93	63	54
D3-N-MeFOSAA (surr.)	1	%	113	107	104	72
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoronananesulfonic 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	%	83	77	90	88
18O2-PFHxS (surr.)	1	%	80	74	71	80
13C8-PFOS (surr.)	1	%	85	79	93	72

Client Sample ID			SX_IB_202205 22_08_12_SS Duplicate_EUF	SX_OB_20220 522_11_51_SS Primary_EUF	SX_OB_20220 522_15_48_SS TriPLICATE_EU F	SX_OB_20220 522_15_54_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0053750	M22- My0053751	M22- My0053752	M22- My0053753
Date Sampled			May 22, 2022	May 22, 2022	May 22, 2022	May 22, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	109	89	67	80
13C2-6:2 FTSA (surr.)	1	%	97	93	66	71
13C2-8:2 FTSA (surr.)	1	%	121	116	79	100
13C2-10:2 FTSA (surr.)	1	%	94	91	45	116
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 522_20_13_SS Primary_EUF	SX_OB_20220 523_00_18_SS Primary_EUF	SX_OB_20220 523_04_18_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0053754	M22- My0053755	M22- My0053756
Date Sampled			May 22, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100
Volatile Organics					
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 522_20_13_SS _Primary_EUF	SX_OB_20220 523_00_18_SS _Primary_EUF	SX_OB_20220 523_04_18_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0053754	M22- My0053755	M22- My0053756
Date Sampled			May 22, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit			
Volatile Organics					
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 522_20_13_SS _Primary_EUF	SX_OB_20220 523_00_18_SS _Primary_EUF	SX_OB_20220 523_04_18_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0053754	M22- My0053755	M22- My0053756
Date Sampled			May 22, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit			
Volatile Organics					
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	77	61	76
Toluene-d8 (surr.)	1	%	77	63	76
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	53	67	71
p-Terphenyl-d14 (surr.)	1	%	94	87	90
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05

Client Sample ID			SX_OB_20220 522_20_13_SS _Primary_EUF	SX_OB_20220 523_00_18_SS _Primary_EUF	SX_OB_20220 523_04_18_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0053754	M22- My0053755	M22- My0053756
Date Sampled			May 22, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	143	61	51
Tetrachloro-m-xylene (surr.)	1	%	112	96	96
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	143	61	51
Tetrachloro-m-xylene (surr.)	1	%	112	96	96
Phenols (Halogenated)					
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1
Phenols (non-Halogenated)					
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	87	55	68
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20

Client Sample ID			SX_OB_20220 522_20_13_SS _Primary_EUF	SX_OB_20220 523_00_18_SS _Primary_EUF	SX_OB_20220 523_04_18_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0053754	M22- My0053755	M22- My0053756
Date Sampled			May 22, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit			
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1
Cyanide (total)	5	mg/kg	< 5	< 5	< 5
Fluoride (Total)	100	mg/kg	< 100	180	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.3	8.0	7.0
% Moisture	1	%	31	34	33
Heavy Metals					
Arsenic	2	mg/kg	60	70	57
Cadmium	1	mg/kg	< 1	< 1	< 1
Chromium	5	mg/kg	110	150	130
Copper	5	mg/kg	56	62	57
Lead	5	mg/kg	5.0	5.9	5.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5
Nickel	5	mg/kg	160	170	150
Selenium	5	mg/kg	< 5	< 5	< 5
Silver	2	mg/kg	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10
Zinc	5	mg/kg	100	110	100
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	81	79	115
13C5-PFPeA (surr.)	1	%	80	102	119
13C5-PFHxA (surr.)	1	%	83	77	104
13C4-PFHpA (surr.)	1	%	86	77	106
13C8-PFOA (surr.)	1	%	75	73	98
13C5-PFNA (surr.)	1	%	82	80	102
13C6-PFDA (surr.)	1	%	75	100	122
13C2-PFUnDA (surr.)	1	%	77	76	95
13C2-PFDoDA (surr.)	1	%	68	91	82
13C2-PFTeDA (surr.)	1	%	78	113	67
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5

Client Sample ID			SX_OB_20220 522_20_13_SS _Primary_EUF	SX_OB_20220 523_00_18_SS _Primary_EUF	SX_OB_20220 523_04_18_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- My0053754	M22- My0053755	M22- My0053756
Date Sampled			May 22, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonamido substances					
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	118	80	131
D3-N-MeFOSA (surr.)	1	%	96	90	83
D5-N-EtFOSA (surr.)	1	%	122	97	76
D7-N-MeFOSE (surr.)	1	%	27	105	103
D9-N-EtFOSE (surr.)	1	%	68	71	87
D5-N-EtFOSAA (surr.)	1	%	126	81	109
D3-N-MeFOSAA (surr.)	1	%	87	67	91
Perfluoroalkyl sulfonic acids (PFASs)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	87	90	119
18O2-PFHxS (surr.)	1	%	66	80	117
13C8-PFOS (surr.)	1	%	75	102	120
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	80	65	96
13C2-6:2 FTSA (surr.)	1	%	72	65	74
13C2-8:2 FTSA (surr.)	1	%	107	65	100
13C2-10:2 FTSA (surr.)	1	%	112	66	58
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
IWRG 621 WGTP Suite			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	May 23, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	May 23, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	May 23, 2022	14 Days
Volatile Organics - Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS	Melbourne	May 23, 2022	7 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	May 23, 2022	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 23, 2022	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	May 23, 2022	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	May 23, 2022	28 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 23, 2022	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 23, 2022	14 Days
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection - Method: LTM-INO-4230 Hexavalent Chromium by UV-Vis	Melbourne	May 23, 2022	28 Days
Cyanide (total) - Method: LTM-INO-4020 Total Free WAD Cyanide by CFA	Melbourne	May 25, 2022	14 Days
Fluoride (Total) - Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE	Melbourne	May 30, 2022	28 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	May 23, 2022	7 Days
Metals IWRG 621 : Metals M12 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	May 23, 2022	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	May 23, 2022	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 23, 2022	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	890748	Due:	May 30, 2022
Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_IB_20220521_08_11_SS_Triplicate_EUF	May 21, 2022	8:11AM	Soil	M22-My0053736		X	X	X
2	SX_IB_20220521_08_34_SS_Primary_EUF	May 21, 2022	8:34AM	Soil	M22-My0053737		X	X	X
3	SX_IB_20220521_11_52_SS_Primary_EUF	May 21, 2022	11:52AM	Soil	M22-My0053738		X	X	X
4	SX_OB_20220521_12_00_S	May 21, 2022	12:00PM	Soil	M22-My0053739		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
5	SX_IB_202205 21_12_19_SR _Rinsate_EUF	May 21, 2022	12:19PM	Water	M22- My0053740			X	
6	SX_IB_202205 21_12_22_SB _Blank_EUF	May 21, 2022	12:22PM	Water	M22- My0053741			X	
7	SX_IB_202205 21_16_05_SS _Primary_EUF	May 21, 2022	4:05PM	Soil	M22- My0053742		X	X	X
8	SX_IB_202205 21_16_07_SS _Duplicate_EU	May 21, 2022	4:07PM	Soil	M22- My0053743		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
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Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Duplicate_EU F								
9	SX_OB_20220521_20_02_SS_Primary_EU F	May 21, 2022	8:02PM	Soil	M22-My0053744		X	X	X
10	SX_IB_20220521_20_13_SS_Primary_EU F	May 21, 2022	8:13PM	Soil	M22-My0053745		X	X	X
11	SX_IB_20220521_20_15_SS_Duplicate_EU F	May 21, 2022	8:15PM	Soil	M22-My0053746		X	X	X
12	SX_OB_20220	May 22, 2022	12:03AM	Soil	M22-		X	X	X

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

Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	522_00_03_S S_Primary_EU F				My0053747				
13	SX_OB_20220 522_04_05_S S_Primary_EU F	May 22, 2022	4:05AM	Soil	M22- My0053748		X	X	X
14	SX_IB_202205 22_08_11_SS _Primary_EUF	May 22, 2022	8:11AM	Soil	M22- My0053749		X	X	X
15	SX_IB_202205 22_08_12_SS _Duplicate_EU F	May 22, 2022	8:12AM	Soil	M22- My0053750		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	890748	Due:	May 30, 2022
Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
16	SX_OB_20220522_11_51_S_S_Primary_EU_F	May 22, 2022	11:51AM	Soil	M22-My0053751		X	X	X
17	SX_OB_20220522_15_48_S_S_Triplicate_EUF	May 22, 2022	3:48PM	Soil	M22-My0053752		X	X	X
18	SX_OB_20220522_15_54_S_S_Primary_EU_F	May 22, 2022	3:54PM	Soil	M22-My0053753		X	X	X
19	SX_OB_20220522_20_13_S	May 22, 2022	8:13PM	Soil	M22-My0053754		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	890748	Due:	May 30, 2022
Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
20	SX_OB_20220 523_00_18_S S_Primary_EU F	May 23, 2022	12:18AM	Soil	M22- My0053755		X	X	X
21	SX_OB_20220 523_04_18_S S_Primary_EU F	May 23, 2022	4:18AM	Soil	M22- My0053756		X	X	X
22	SX_IB_202205 21_08_11_SS _Triplicate_EU F	May 21, 2022	8:11AM	AUS Leachate - pH 5.0	M22- My0053757	X		X	

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

Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
23	SX_IB_20220521_08_34_SS_Primary_EUF	May 21, 2022	8:34AM	AUS Leachate - pH 5.0	M22-My0053758	X		X	
24	SX_IB_20220521_11_52_SS_Primary_EUF	May 21, 2022	11:52AM	AUS Leachate - pH 5.0	M22-My0053759	X		X	
25	SX_OB_20220521_12_00_S_S_Primary_EUF	May 21, 2022	12:00PM	AUS Leachate - pH 5.0	M22-My0053760	X		X	
26	SX_IB_20220521_16_05_SS_Primary_EUF	May 21, 2022	4:05PM	AUS Leachate - pH 5.0	M22-My0053761	X		X	
27	SX_IB_202205	May 21, 2022	4:07PM	AUS Leachate	M22-	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_16_07_SS Duplicate_EU F			- pH 5.0	My0053762				
28	SX_OB_20220521_20_02_SS_Primary_EU F	May 21, 2022	8:02PM	AUS Leachate - pH 5.0	M22-My0053763	X		X	
29	SX_IB_20220521_20_13_SS_Primary_EU F	May 21, 2022	8:13PM	AUS Leachate - pH 5.0	M22-My0053764	X		X	
30	SX_IB_20220521_20_15_SS_Duplicate_EU F	May 21, 2022	8:15PM	AUS Leachate - pH 5.0	M22-My0053765	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
31	SX_OB_20220522_00_03_S_S_Primary_EU_F	May 22, 2022	12:03AM	AUS Leachate - pH 5.0	M22-My0053766	X		X	
32	SX_OB_20220522_04_05_S_S_Primary_EU_F	May 22, 2022	4:05AM	AUS Leachate - pH 5.0	M22-My0053767	X		X	
33	SX_IB_20220522_08_11_SS_Primary_EUF	May 22, 2022	8:11AM	AUS Leachate - pH 5.0	M22-My0053768	X		X	
34	SX_IB_20220522_08_12_SS_Duplicate_EU	May 22, 2022	8:12AM	AUS Leachate - pH 5.0	M22-My0053769	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	F								
35	SX_OB_20220522_11_51_S_S_Primary_EU_F	May 22, 2022	11:51AM	AUS Leachate - pH 5.0	M22-My0053770	X		X	
36	SX_OB_20220522_15_48_S_S_Triplicate_EUF	May 22, 2022	3:48PM	AUS Leachate - pH 5.0	M22-My0053771	X		X	
37	SX_OB_20220522_15_54_S_S_Primary_EU_F	May 22, 2022	3:54PM	AUS Leachate - pH 5.0	M22-My0053772	X		X	
38	SX_OB_20220	May 22, 2022	8:13PM	AUS Leachate	M22-	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
38	SX_OB_20220522_20_13_S_S_Primary_EU_F	May 22, 2022	8:13PM	AUS Leachate - pH 5.0	M22-My0053773				
39	SX_OB_20220523_00_18_S_S_Primary_EU_F	May 23, 2022	12:18AM	AUS Leachate - pH 5.0	M22-My0053774	X		X	
40	SX_OB_20220523_04_18_S_S_Primary_EU_F	May 23, 2022	4:18AM	AUS Leachate - pH 5.0	M22-My0053775	X		X	
41	SX_IB_20220521_08_11_SS	May 21, 2022	8:11AM	AUS Leachate - Reagent	M22-My0053776	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
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Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Triplicate_EU F			Water					
42	SX_IB_202205 21_08_34_SS _Primary_EUF	May 21, 2022	8:34AM	AUS Leachate - Reagent Water	M22- My0053777	X		X	
43	SX_IB_202205 21_11_52_SS _Primary_EUF	May 21, 2022	11:52AM	AUS Leachate - Reagent Water	M22- My0053778	X		X	
44	SX_OB_20220 521_12_00_S S_Primary_EU F	May 21, 2022	12:00PM	AUS Leachate - Reagent Water	M22- My0053779	X		X	
45	SX_IB_202205 21_16_05_SS	May 21, 2022	4:05PM	AUS Leachate - Reagent	M22- My0053780	X		X	

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_16_05_SS _Primary_EUF			- Reagent Water	My0053780				
46	SX_IB_202205 21_16_07_SS _Duplicate_EU F	May 21, 2022	4:07PM	AUS Leachate - Reagent Water	M22- My0053781	X		X	
47	SX_OB_20220 521_20_02_S S_Primary_EU F	May 21, 2022	8:02PM	AUS Leachate - Reagent Water	M22- My0053782	X		X	
48	SX_IB_202205 21_20_13_SS _Primary_EUF	May 21, 2022	8:13PM	AUS Leachate - Reagent Water	M22- My0053783	X		X	
49	SX_IB_202205	May 21, 2022	8:15PM	AUS Leachate	M22-	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_20_15_SS_Duplicate_EU_F			- Reagent Water	My0053784				
50	SX_OB_20220522_00_03_SS_Primary_EU_F	May 22, 2022	12:03AM	AUS Leachate - Reagent Water	M22-My0053785	X		X	
51	SX_OB_20220522_04_05_SS_Primary_EU_F	May 22, 2022	4:05AM	AUS Leachate - Reagent Water	M22-My0053786	X		X	
52	SX_IB_20220522_08_11_SS_Primary_EUF	May 22, 2022	8:11AM	AUS Leachate - Reagent Water	M22-My0053787	X		X	

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Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
53	SX_IB_20220522_08_12_SS_Duplicate_EU_F	May 22, 2022	8:12AM	AUS Leachate - Reagent Water	M22-My0053788	X		X	
54	SX_OB_20220522_11_51_SS_Primary_EU_F	May 22, 2022	11:51AM	AUS Leachate - Reagent Water	M22-My0053789	X		X	
55	SX_OB_20220522_15_48_SS_Triplicate_EUF	May 22, 2022	3:48PM	AUS Leachate - Reagent Water	M22-My0053790	X		X	
56	SX_OB_20220522_15_54_SS	May 22, 2022	3:54PM	AUS Leachate - Reagent	M22-My0053791	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
57	SX_OB_20220 522_20_13_S S_Primary_EU F	May 22, 2022	8:13PM	AUS Leachate - Reagent Water	M22- My0053792	X		X	
58	SX_OB_20220 523_00_18_S S_Primary_EU F	May 23, 2022	12:18AM	AUS Leachate - Reagent Water	M22- My0053793	X		X	
59	SX_OB_20220 523_04_18_S S_Primary_EU F	May 23, 2022	4:18AM	AUS Leachate - Reagent Water	M22- My0053794	X		X	

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Sample Detail	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IMRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217				
Brisbane Laboratory - NATA # 1261 Site # 20794				
Mayfield Laboratory - NATA # 1261 Site # 25079				
Perth Laboratory - NATA # 2377 Site # 2370				
External Laboratory				
Test Counts	38	19	59	19

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

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

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

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

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/kg	< 5		5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5		5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5		5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5		5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5		5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5		5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5		5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5		5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5		5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5		5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5		5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5		5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5		5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5		5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5		5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10		10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10		10	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5		5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5		5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5		5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5		5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5		5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5		5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5		5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5		5	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10		10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5		5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons						
TRH C6-C9	%	108		70-130	Pass	
TRH C10-C14	%	97		70-130	Pass	
Naphthalene	%	121		70-130	Pass	
TRH C6-C10	%	108		70-130	Pass	
TRH >C10-C16	%	101		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1.1-Dichloroethene	%	107		70-130	Pass	
1.1.1-Trichloroethane	%	113		70-130	Pass	
1.2-Dichlorobenzene	%	121		70-130	Pass	
1.2-Dichloroethane	%	82		70-130	Pass	
Benzene	%	111		70-130	Pass	
Ethylbenzene	%	105		70-130	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	100		70-130	Pass	
Toluene	%	102		70-130	Pass	
Trichloroethene	%	118		70-130	Pass	
Xylenes - Total*	%	100		70-130	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	104		70-130	Pass	
Acenaphthylene	%	121		70-130	Pass	
Anthracene	%	108		70-130	Pass	
Benz(a)anthracene	%	93		70-130	Pass	
Benzo(a)pyrene	%	106		70-130	Pass	
Benzo(b&i)fluoranthene	%	82		70-130	Pass	
Benzo(g,h,i)perylene	%	86		70-130	Pass	
Benzo(k)fluoranthene	%	87		70-130	Pass	
Chrysene	%	100		70-130	Pass	
Dibenz(a,h)anthracene	%	74		70-130	Pass	
Fluoranthene	%	117		70-130	Pass	
Fluorene	%	110		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	72		70-130	Pass	
Naphthalene	%	102		70-130	Pass	
Phenanthrene	%	109		70-130	Pass	
Pyrene	%	124		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
Chlordanes - Total	%	87		70-130	Pass	
4,4'-DDD	%	100		70-130	Pass	
4,4'-DDE	%	95		70-130	Pass	
4,4'-DDT	%	86		70-130	Pass	
a-HCH	%	84		70-130	Pass	
Aldrin	%	82		70-130	Pass	
b-HCH	%	98		70-130	Pass	
d-HCH	%	88		70-130	Pass	
Dieldrin	%	90		70-130	Pass	
Endosulfan I	%	87		70-130	Pass	
Endosulfan II	%	81		70-130	Pass	
Endosulfan sulphate	%	72		70-130	Pass	
Endrin	%	78		70-130	Pass	
Endrin aldehyde	%	79		70-130	Pass	
Endrin ketone	%	75		70-130	Pass	
g-HCH (Lindane)	%	86		70-130	Pass	
Heptachlor	%	78		70-130	Pass	
Heptachlor epoxide	%	85		70-130	Pass	
Hexachlorobenzene	%	81		70-130	Pass	
Methoxychlor	%	79		70-130	Pass	
LCS - % Recovery						
Polychlorinated Biphenyls						
Aroclor-1260	%	119		70-130	Pass	
LCS - % Recovery						
Phenols (Halogenated)						
2-Chlorophenol	%	95		25-140	Pass	
2,4-Dichlorophenol	%	100		25-140	Pass	
2,4,5-Trichlorophenol	%	104		25-140	Pass	
2,4,6-Trichlorophenol	%	129		25-140	Pass	
2,6-Dichlorophenol	%	89		25-140	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
4-Chloro-3-methylphenol	%	92		25-140	Pass	
Pentachlorophenol	%	81		25-140	Pass	
Tetrachlorophenols - Total	%	89		25-140	Pass	
LCS - % Recovery						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	%	42		25-140	Pass	
2-Methyl-4,6-dinitrophenol	%	59		25-140	Pass	
2-Nitrophenol	%	74		25-140	Pass	
2,4-Dimethylphenol	%	120		25-140	Pass	
2,4-Dinitrophenol	%	41		25-140	Pass	
2-Methylphenol (o-Cresol)	%	79		25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	91		25-140	Pass	
4-Nitrophenol	%	76		25-140	Pass	
Dinoseb	%	73		25-140	Pass	
Phenol	%	93		25-140	Pass	
LCS - % Recovery						
Chromium (hexavalent)	%	71		70-130	Pass	
Cyanide (total)	%	88		70-130	Pass	
Fluoride (Total)	%	111		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	97		80-120	Pass	
Cadmium	%	111		80-120	Pass	
Chromium	%	100		80-120	Pass	
Copper	%	98		80-120	Pass	
Lead	%	100		80-120	Pass	
Mercury	%	113		80-120	Pass	
Molybdenum	%	97		80-120	Pass	
Nickel	%	100		80-120	Pass	
Selenium	%	98		80-120	Pass	
Silver	%	110		80-120	Pass	
Tin	%	98		80-120	Pass	
Zinc	%	101		80-120	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	109		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	94		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	88		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	94		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	119		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	89		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	104		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	91		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	104		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	67		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	78		50-150	Pass	
LCS - % Recovery						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	%	87		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	118		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	96		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)	%	103		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	75		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	98			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFASs)								
Perfluorobutanesulfonic acid (PFBS)	%	80			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	135			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	108			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	95			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	110			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	89			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	110			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	101			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	85			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)	%	141			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	111			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-My0046827	NCP	%	118		70-130	Pass	
TRH >C10-C16	M22-My0046827	NCP	%	119		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	M22-My0060327	NCP	%	113		70-130	Pass	
Acenaphthylene	M22-My0060327	NCP	%	126		70-130	Pass	
Anthracene	M22-My0060327	NCP	%	87		70-130	Pass	
Benz(a)anthracene	M22-My0060327	NCP	%	74		70-130	Pass	
Benzo(a)pyrene	M22-My0060327	NCP	%	118		70-130	Pass	
Benzo(b&j)fluoranthene	M22-My0060327	NCP	%	93		70-130	Pass	
Benzo(g,h,i)perylene	M22-My0060327	NCP	%	88		70-130	Pass	
Benzo(k)fluoranthene	M22-My0060327	NCP	%	89		70-130	Pass	
Chrysene	M22-My0060327	NCP	%	96		70-130	Pass	
Dibenz(a,h)anthracene	M22-My0060327	NCP	%	103		70-130	Pass	
Fluoranthene	M22-My0060327	NCP	%	119		70-130	Pass	
Fluorene	M22-My0060327	NCP	%	118		70-130	Pass	
Indeno(1,2,3-cd)pyrene	M22-My0060327	NCP	%	99		70-130	Pass	
Naphthalene	M22-My0060327	NCP	%	109		70-130	Pass	
Phenanthrene	M22-My0060327	NCP	%	114		70-130	Pass	
Pyrene	M22-My0060327	NCP	%	120		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	M22-My0053736	CP	%	108		70-130	Pass	
4,4'-DDD	M22-My0053736	CP	%	87		70-130	Pass	
4,4'-DDE	M22-My0053736	CP	%	87		70-130	Pass	
4,4'-DDT	M22-My0053736	CP	%	110		70-130	Pass	
a-HCH	M22-My0053736	CP	%	107		70-130	Pass	
Aldrin	M22-My0053736	CP	%	126		70-130	Pass	
b-HCH	M22-My0053736	CP	%	85		70-130	Pass	
d-HCH	M22-My0053736	CP	%	94		70-130	Pass	
Dieldrin	M22-My0053736	CP	%	115		70-130	Pass	
Endosulfan I	M22-My0053736	CP	%	106		70-130	Pass	
Endosulfan II	M22-My0053736	CP	%	100		70-130	Pass	
Endosulfan sulphate	M22-My0053736	CP	%	116		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Endrin	M22-My0053736	CP	%	117		70-130	Pass	
Endrin aldehyde	M22-My0053736	CP	%	116		70-130	Pass	
Endrin ketone	M22-My0053736	CP	%	89		70-130	Pass	
g-HCH (Lindane)	M22-My0053736	CP	%	126		70-130	Pass	
Heptachlor	M22-My0053736	CP	%	94		70-130	Pass	
Heptachlor epoxide	M22-My0053736	CP	%	121		70-130	Pass	
Hexachlorobenzene	M22-My0053736	CP	%	110		70-130	Pass	
Methoxychlor	M22-My0053736	CP	%	85		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	M22-My0054849	NCP	%	87		70-130	Pass	
Aroclor-1260	M22-My0054849	NCP	%	110		70-130	Pass	
Spike - % Recovery								
Phenols (Halogenated)				Result 1				
2-Chlorophenol	M22-My0060327	NCP	%	112		30-130	Pass	
2,4-Dichlorophenol	M22-My0060327	NCP	%	122		30-130	Pass	
2,4,5-Trichlorophenol	M22-My0060327	NCP	%	97		30-130	Pass	
2,4,6-Trichlorophenol	M22-My0060327	NCP	%	88		30-130	Pass	
2,6-Dichlorophenol	M22-My0060327	NCP	%	95		30-130	Pass	
4-Chloro-3-methylphenol	M22-My0060327	NCP	%	103		30-130	Pass	
Pentachlorophenol	M22-My0060327	NCP	%	65		30-130	Pass	
Tetrachlorophenols - Total	M22-My0060327	NCP	%	114		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Cyclohexyl-4,6-dinitrophenol	M22-My0063689	NCP	%	41		30-130	Pass	
2-Methyl-4,6-dinitrophenol	M22-My0058685	NCP	%	46		30-130	Pass	
2-Nitrophenol	M22-My0060327	NCP	%	85		30-130	Pass	
2,4-Dimethylphenol	M22-My0060327	NCP	%	122		30-130	Pass	
2,4-Dinitrophenol	M22-My0058685	NCP	%	33		30-130	Pass	
2-Methylphenol (o-Cresol)	M22-My0060327	NCP	%	90		30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-My0060327	NCP	%	105		30-130	Pass	
4-Nitrophenol	M22-My0060327	NCP	%	68		30-130	Pass	
Dinoseb	M22-My0060327	NCP	%	47		30-130	Pass	
Phenol	M22-My0060327	NCP	%	111		30-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Nickel	M22-My0047128	NCP	%	124		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	M22-My0053737	CP	%	108		70-130	Pass	
Naphthalene	M22-My0053737	CP	%	75		70-130	Pass	
TRH C6-C10	M22-My0053737	CP	%	108		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1,1-Dichloroethene	M22-My0053737	CP	%	82		70-130	Pass	
1,1,1-Trichloroethane	M22-My0053737	CP	%	77		70-130	Pass	
1,2-Dichlorobenzene	M22-My0053737	CP	%	88		70-130	Pass	
1,2-Dichloroethane	M22-My0053737	CP	%	91		70-130	Pass	
Benzene	M22-My0053737	CP	%	75		70-130	Pass	
Ethylbenzene	M22-My0053737	CP	%	73		70-130	Pass	
m&p-Xylenes	M22-My0053737	CP	%	70		70-130	Pass	
o-Xylene	M22-My0053737	CP	%	70		70-130	Pass	
Toluene	M22-My0053737	CP	%	71		70-130	Pass	
Trichloroethene	M22-My0053737	CP	%	81		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*	M22-My0053737	CP	%	70		70-130	Pass	
Spike - % Recovery								
				Result 1				
Fluoride (Total)	M22-My0053744	CP	%	82		70-130	Pass	
Spike - % Recovery								
				Result 1				
Chromium (hexavalent)	M22-My0058279	NCP	%	82		70-130	Pass	
Fluoride (Total)	M22-My0053745	CP	%	87		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	M22-My0053749	CP	%	77		75-125	Pass	
Cadmium	M22-My0053749	CP	%	92		75-125	Pass	
Chromium	M22-My0053749	CP	%	90		75-125	Pass	
Copper	M22-My0053749	CP	%	87		75-125	Pass	
Lead	M22-My0053749	CP	%	89		75-125	Pass	
Mercury	M22-My0053749	CP	%	107		75-125	Pass	
Molybdenum	M22-My0053749	CP	%	87		75-125	Pass	
Selenium	M22-My0053749	CP	%	81		75-125	Pass	
Silver	M22-My0053749	CP	%	87		75-125	Pass	
Tin	M22-My0053749	CP	%	92		75-125	Pass	
Zinc	M22-My0053749	CP	%	80		75-125	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	M22-My0053749	CP	%	111		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0053749	CP	%	107		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0053749	CP	%	107		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0053749	CP	%	106		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0053749	CP	%	108		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-My0053749	CP	%	105		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0053749	CP	%	109		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-My0053749	CP	%	111		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0053749	CP	%	117		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-My0053749	CP	%	77		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-My0053749	CP	%	108		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				
Perfluorooctane sulfonamide (FOSA)	M22-My0053749	CP	%	96		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0053749	CP	%	113		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0053749	CP	%	113		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0053749	CP	%	112		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0053749	CP	%	110		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0053749	CP	%	112		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0053749	CP	%	108		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1				

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorobutanesulfonic acid (PFBS)	M22-My0053749	CP	%	106			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-My0053749	CP	%	95			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-My0053749	CP	%	102			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-My0053749	CP	%	102			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-My0053749	CP	%	109			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0053749	CP	%	91			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-My0053749	CP	%	105			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-My0053749	CP	%	90			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0053749	CP	%	111			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0053749	CP	%	122			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0053749	CP	%	138			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0053749	CP	%	103			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M22-My0053755	CP	%	108			70-130	Pass	
TRH C6-C10	M22-My0053755	CP	%	108			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M22-My0053755	CP	%	115			70-130	Pass	
1.1.1-Trichloroethane	M22-My0053755	CP	%	109			70-130	Pass	
1.2-Dichlorobenzene	M22-My0053755	CP	%	117			70-130	Pass	
1.2-Dichloroethane	M22-My0053755	CP	%	128			70-130	Pass	
Benzene	M22-My0053755	CP	%	111			70-130	Pass	
Ethylbenzene	M22-My0053755	CP	%	101			70-130	Pass	
m&p-Xylenes	M22-My0053755	CP	%	97			70-130	Pass	
o-Xylene	M22-My0053755	CP	%	97			70-130	Pass	
Toluene	M22-My0053755	CP	%	98			70-130	Pass	
Trichloroethene	M22-My0053755	CP	%	115			70-130	Pass	
Xylenes - Total*	M22-My0053755	CP	%	97			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-My0051612	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-My0051612	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trichlorobenzene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-My0051612	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-My0051612	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M22-My0054829	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M22-My0054829	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M22-My0054829	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	M22-My0054829	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	M22-My0054829	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	M22-My0054829	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	M22-My0054829	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	M22-My0054829	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M22-My0054829	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M22-My0054829	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass

Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M22-My0054829	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M22-My0054829	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M22-My0054829	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M22-My0054829	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M22-My0054829	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M22-My0054829	NCP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M22-My0054829	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M22-My0054829	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M22-My0054829	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M22-My0054829	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M22-My0054829	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M22-My0054829	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M22-My0054829	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M22-My0054829	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Cyanide (total)	M22-My0051752	NCP	mg/kg	< 5	< 5	<1	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	M22-My0054833	NCP	pH Units	7.4	7.5	pass	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-My0053738	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M22-My0053742	CP	%	29	29	2.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-My0053743	CP	mg/kg	< 1	< 1	<1	30%	Pass
Fluoride (Total)	M22-My0053743	CP	mg/kg	150	160	9.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	M22-My0053744	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M22-My0053744	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	M22-My0053744	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	M22-My0053744	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M22-My0053744	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	M22-My0053744	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-My0053744	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorodecanoic acid (PFDA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0053746	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0053746	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0053746	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0053746	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-My0053748	CP	mg/kg	< 1	< 1	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M22-My0053749	CP	mg/kg	20	21	4.0	30%	Pass
Cadmium	M22-My0053749	CP	mg/kg	< 1	< 1	<1	30%	Pass
Chromium	M22-My0053749	CP	mg/kg	120	120	6.0	30%	Pass
Copper	M22-My0053749	CP	mg/kg	55	58	5.0	30%	Pass
Lead	M22-My0053749	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	M22-My0053749	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M22-My0053749	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M22-My0053749	CP	mg/kg	160	170	5.0	30%	Pass
Selenium	M22-My0053749	CP	mg/kg	< 5	< 5	<1	30%	Pass
Silver	M22-My0053749	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tin	M22-My0053749	CP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M22-My0053749	CP	mg/kg	92	98	7.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-My0053750	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M22-My0053753	CP	%	32	31	3.0	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC

Authorised by:

Catherine Wilson	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Inorganic
Edward Lee	Senior Analyst-Organic
Emily Rosenberg	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Linda Chouman	Senior Analyst-Sample Properties
Vivian Wang	Senior Analyst-Volatile



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

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

Report **890748-W**
Project name **20220523050323-Eurofin-14**
Project ID **JC0927**
Received Date **May 23, 2022**

Client Sample ID			SX_IB_202205 21_12_19_SR_ Rinsate_EUF	SX_IB_202205 21_12_22_SB_ Blank_EUF
Sample Matrix			Water	Water
Eurofins Sample No.			M22- My0053740	M22- My0053741
Date Sampled			May 21, 2022	May 21, 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 (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	113	124
13C5-PFPeA (surr.)	1	%	112	98
13C5-PFHxA (surr.)	1	%	101	105
13C4-PFHpA (surr.)	1	%	101	104
13C8-PFOA (surr.)	1	%	87	79
13C5-PFNA (surr.)	1	%	113	113
13C6-PFDA (surr.)	1	%	51	101
13C2-PFUnDA (surr.)	1	%	102	124
13C2-PFDoDA (surr.)	1	%	92	130
13C2-PFTeDA (surr.)	1	%	98	131
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	%	88	97

Client Sample ID			SX_IB_202205 21_12_19_SR_ Rinsate_EUF	SX_IB_202205 21_12_22_SB_ Blank_EUF
Sample Matrix			Water	Water
Eurofins Sample No.			M22- My0053740	M22- My0053741
Date Sampled			May 21, 2022	May 21, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
D3-N-MeFOSA (surr.)	1	%	95	80
D5-N-EtFOSA (surr.)	1	%	96	66
D7-N-MeFOSE (surr.)	1	%	147	135
D9-N-EtFOSE (surr.)	1	%	109	115
D5-N-EtFOSAA (surr.)	1	%	73	107
D3-N-MeFOSAA (surr.)	1	%	27	61
Perfluoroalkyl sulfonic acids (PFASs)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	124	133
18O2-PFHxS (surr.)	1	%	108	128
13C8-PFOS (surr.)	1	%	112	137
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	72	79
13C2-6:2 FTSA (surr.)	1	%	93	97
13C2-8:2 FTSA (surr.)	1	%	131	131
13C2-10:2 FTSA (surr.)	1	%	110	132
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 23, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 23, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 23, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 23, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	May 23, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	890748	Due:	May 30, 2022
Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_IB_20220521_08_11_SS_Triplicate_EUF	May 21, 2022	8:11AM	Soil	M22-My0053736		X	X	X
2	SX_IB_20220521_08_34_SS_Primary_EUF	May 21, 2022	8:34AM	Soil	M22-My0053737		X	X	X
3	SX_IB_20220521_11_52_SS_Primary_EUF	May 21, 2022	11:52AM	Soil	M22-My0053738		X	X	X
4	SX_OB_20220521_12_00_S	May 21, 2022	12:00PM	Soil	M22-My0053739		X	X	X

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

Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
5	SX_IB_202205 21_12_19_SR _Rinsate_EUF	May 21, 2022	12:19PM	Water	M22- My0053740			X	
6	SX_IB_202205 21_12_22_SB _Blank_EUF	May 21, 2022	12:22PM	Water	M22- My0053741			X	
7	SX_IB_202205 21_16_05_SS _Primary_EUF	May 21, 2022	4:05PM	Soil	M22- My0053742		X	X	X
8	SX_IB_202205 21_16_07_SS _Duplicate_EU	May 21, 2022	4:07PM	Soil	M22- My0053743		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 23, 2022 12:30 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	890748	Due:	May 30, 2022
Project Name:	20220523050323-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Duplicate_EU F								
9	SX_OB_20220521_20_02_SS_Primary_EU F	May 21, 2022	8:02PM	Soil	M22-My0053744		X	X	X
10	SX_IB_20220521_20_13_SS_Primary_EU F	May 21, 2022	8:13PM	Soil	M22-My0053745		X	X	X
11	SX_IB_20220521_20_15_SS_Duplicate_EU F	May 21, 2022	8:15PM	Soil	M22-My0053746		X	X	X
12	SX_OB_20220	May 22, 2022	12:03AM	Soil	M22-		X	X	X

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063
Project Name: 20220523050323-Eurofin-14
Project ID: JC0927

Order No.:
Report #: 890748
Phone: 08 8338 1009
Fax:

Received: May 23, 2022 12:30 PM
Due: May 30, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	522_00_03_S S_Primary_EU F				My0053747				
13	SX_OB_20220 522_04_05_S S_Primary_EU F	May 22, 2022	4:05AM	Soil	M22- My0053748		X	X	X
14	SX_IB_202205 22_08_11_SS _Primary_EUF	May 22, 2022	8:11AM	Soil	M22- My0053749		X	X	X
15	SX_IB_202205 22_08_12_SS _Duplicate_EU F	May 22, 2022	8:12AM	Soil	M22- My0053750		X	X	X

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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									
16	SX_OB_20220522_11_51_S_S_Primary_EU_F	May 22, 2022	11:51AM	Soil	M22-My0053751		X	X	X
17	SX_OB_20220522_15_48_S_S_Triplicate_EUF	May 22, 2022	3:48PM	Soil	M22-My0053752		X	X	X
18	SX_OB_20220522_15_54_S_S_Primary_EU_F	May 22, 2022	3:54PM	Soil	M22-My0053753		X	X	X
19	SX_OB_20220522_20_13_S	May 22, 2022	8:13PM	Soil	M22-My0053754		X	X	X

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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									
	S_Primary_EU F								
20	SX_OB_20220523_00_18_S S_Primary_EU F	May 23, 2022	12:18AM	Soil	M22-My0053755		X	X	X
21	SX_OB_20220523_04_18_S S_Primary_EU F	May 23, 2022	4:18AM	Soil	M22-My0053756		X	X	X
22	SX_IB_20220521_08_11_SS _Triplicate_EU F	May 21, 2022	8:11AM	AUS Leachate - pH 5.0	M22-My0053757	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
23	SX_IB_20220521_08_34_SS_Primary_EUF	May 21, 2022	8:34AM	AUS Leachate - pH 5.0	M22-My0053758	X		X	
24	SX_IB_20220521_11_52_SS_Primary_EUF	May 21, 2022	11:52AM	AUS Leachate - pH 5.0	M22-My0053759	X		X	
25	SX_OB_20220521_12_00_S_S_Primary_EUF	May 21, 2022	12:00PM	AUS Leachate - pH 5.0	M22-My0053760	X		X	
26	SX_IB_20220521_16_05_SS_Primary_EUF	May 21, 2022	4:05PM	AUS Leachate - pH 5.0	M22-My0053761	X		X	
27	SX_IB_202205	May 21, 2022	4:07PM	AUS Leachate	M22-	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_16_07_SS Duplicate_EU F			- pH 5.0	My0053762				
28	SX_OB_20220521_20_02_SS_Primary_EU F	May 21, 2022	8:02PM	AUS Leachate - pH 5.0	M22-My0053763	X		X	
29	SX_IB_20220521_20_13_SS_Primary_EUF	May 21, 2022	8:13PM	AUS Leachate - pH 5.0	M22-My0053764	X		X	
30	SX_IB_20220521_20_15_SS_Duplicate_EU F	May 21, 2022	8:15PM	AUS Leachate - pH 5.0	M22-My0053765	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
31	SX_OB_20220522_00_03_S_S_Primary_EU_F	May 22, 2022	12:03AM	AUS Leachate - pH 5.0	M22-My0053766	X		X	
32	SX_OB_20220522_04_05_S_S_Primary_EU_F	May 22, 2022	4:05AM	AUS Leachate - pH 5.0	M22-My0053767	X		X	
33	SX_IB_20220522_08_11_SS_Primary_EUF	May 22, 2022	8:11AM	AUS Leachate - pH 5.0	M22-My0053768	X		X	
34	SX_IB_20220522_08_12_SS_Duplicate_EU	May 22, 2022	8:12AM	AUS Leachate - pH 5.0	M22-My0053769	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	F								
35	SX_OB_20220522_11_51_S_S_Primary_EU_F	May 22, 2022	11:51AM	AUS Leachate - pH 5.0	M22-My0053770	X		X	
36	SX_OB_20220522_15_48_S_S_Triplicate_EUF	May 22, 2022	3:48PM	AUS Leachate - pH 5.0	M22-My0053771	X		X	
37	SX_OB_20220522_15_54_S_S_Primary_EU_F	May 22, 2022	3:54PM	AUS Leachate - pH 5.0	M22-My0053772	X		X	
38	SX_OB_20220	May 22, 2022	8:13PM	AUS Leachate	M22-	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
38	SX_OB_20220522_20_13_S_S_Primary_EU_F	May 22, 2022	8:13PM	AUS Leachate - pH 5.0	M22-My0053773				
39	SX_OB_20220523_00_18_S_S_Primary_EU_F	May 23, 2022	12:18AM	AUS Leachate - pH 5.0	M22-My0053774	X		X	
40	SX_OB_20220523_04_18_S_S_Primary_EU_F	May 23, 2022	4:18AM	AUS Leachate - pH 5.0	M22-My0053775	X		X	
41	SX_IB_20220521_08_11_SS	May 21, 2022	8:11AM	AUS Leachate - Reagent	M22-My0053776	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	_Triplicate_EU F			Water					
42	SX_IB_202205 21_08_34_SS _Primary_EUF	May 21, 2022	8:34AM	AUS Leachate - Reagent Water	M22- My0053777	X		X	
43	SX_IB_202205 21_11_52_SS _Primary_EUF	May 21, 2022	11:52AM	AUS Leachate - Reagent Water	M22- My0053778	X		X	
44	SX_OB_20220 521_12_00_S S_Primary_EU F	May 21, 2022	12:00PM	AUS Leachate - Reagent Water	M22- My0053779	X		X	
45	SX_IB_202205 21_16_05_SS	May 21, 2022	4:05PM	AUS Leachate - Reagent	M22- My0053780	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_16_05_SS _Primary_EUF			- Reagent Water	My0053780				
46	SX_IB_202205 21_16_07_SS _Duplicate_EU F	May 21, 2022	4:07PM	AUS Leachate - Reagent Water	M22- My0053781	X		X	
47	SX_OB_20220 521_20_02_S S_Primary_EU F	May 21, 2022	8:02PM	AUS Leachate - Reagent Water	M22- My0053782	X		X	
48	SX_IB_202205 21_20_13_SS _Primary_EUF	May 21, 2022	8:13PM	AUS Leachate - Reagent Water	M22- My0053783	X		X	
49	SX_IB_202205	May 21, 2022	8:15PM	AUS Leachate	M22-	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	21_20_15_SS_Duplicate_EU_F			- Reagent Water	My0053784				
50	SX_OB_20220522_00_03_S_S_Primary_EU_F	May 22, 2022	12:03AM	AUS Leachate - Reagent Water	M22-My0053785	X		X	
51	SX_OB_20220522_04_05_S_S_Primary_EU_F	May 22, 2022	4:05AM	AUS Leachate - Reagent Water	M22-My0053786	X		X	
52	SX_IB_20220522_08_11_SS_Primary_EUF	May 22, 2022	8:11AM	AUS Leachate - Reagent Water	M22-My0053787	X		X	

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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									
53	SX_IB_20220522_08_12_SS_Duplicate_EU_F	May 22, 2022	8:12AM	AUS Leachate - Reagent Water	M22-My0053788	X		X	
54	SX_OB_20220522_11_51_SS_Primary_EU_F	May 22, 2022	11:51AM	AUS Leachate - Reagent Water	M22-My0053789	X		X	
55	SX_OB_20220522_15_48_SS_Triplicate_EUF	May 22, 2022	3:48PM	AUS Leachate - Reagent Water	M22-My0053790	X		X	
56	SX_OB_20220522_15_54_SS	May 22, 2022	3:54PM	AUS Leachate - Reagent	M22-My0053791	X		X	

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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									
	S_Primary_EU F			Water					
57	SX_OB_20220 522_20_13_S S_Primary_EU F	May 22, 2022	8:13PM	AUS Leachate - Reagent Water	M22- My0053792	X		X	
58	SX_OB_20220 523_00_18_S S_Primary_EU F	May 23, 2022	12:18AM	AUS Leachate - Reagent Water	M22- My0053793	X		X	
59	SX_OB_20220 523_04_18_S S_Primary_EU F	May 23, 2022	4:18AM	AUS Leachate - Reagent Water	M22- My0053794	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217				
Brisbane Laboratory - NATA # 1261 Site # 20794				
Mayfield Laboratory - NATA # 1261 Site # 25079				
Perth Laboratory - NATA # 2377 Site # 2370				
External Laboratory				
Test Counts	38	19	59	19

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05		0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	122		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	99		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	96		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	112		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	110		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	91		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	105		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	98		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	89		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	94		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	95		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	68			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	73			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	87			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	119			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	80			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	120			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	57			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)								
Perfluorobutanesulfonic acid (PFBS)	%	71			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	69			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	66			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	118			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	115			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	92			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	93			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	58			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	118			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	126			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	106			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	144			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	M22-My0063968	NCP	%	120		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0063968	NCP	%	103		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0063968	NCP	%	84		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0063968	NCP	%	105		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0063968	NCP	%	116		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-My0063968	NCP	%	89		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0063968	NCP	%	59		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-My0063968	NCP	%	86		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0063968	NCP	%	90		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-My0063968	NCP	%	86		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-My0063968	NCP	%	98		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	M22-My0063968	NCP	%	71		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0063968	NCP	%	105		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0063968	NCP	%	96		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0063968	NCP	%	108		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0063968	NCP	%	78		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0063968	NCP	%	48			50-150	Fail	Q08
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0063968	NCP	%	64			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-My0063968	NCP	%	98			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-My0063968	NCP	%	63			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-My0063968	NCP	%	94			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-My0063968	NCP	%	100			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-My0063968	NCP	%	83			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0063968	NCP	%	90			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-My0063968	NCP	%	100			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-My0063968	NCP	%	59			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0063968	NCP	%	120			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0063968	NCP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0063968	NCP	%	140			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0063968	NCP	%	144			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-My0051595	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTEDA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0051595	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0051595	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0051595	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0051595	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0051595	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0051595	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0051595	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0051595	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0051595	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

Catherine Wilson	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](#).

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NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **David Lawson**

Report **891110-L**
Project name **20220524052813-Eurofin-14**
Project ID **JC0927**
Received Date **May 24, 2022**

Client Sample ID			SX_IB_202205 23_07_59_SS TriPLICATE_EUF	SX_OB_20220 523_08_03_SS _Primary_EUF	SX_OB_20220 523_11_49_SS _Primary_EUF	SX_IB_202205 23_11_57_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- My0056802	M22- My0056803	M22- My0056804	M22- My0056805
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (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	77	83	77
13C5-PFPeA (surr.)	1	%	105	85	98	103
13C5-PFHxA (surr.)	1	%	100	78	94	91
13C4-PFHpA (surr.)	1	%	120	78	105	94
13C8-PFOA (surr.)	1	%	148	84	108	130
13C5-PFNA (surr.)	1	%	125	84	108	109
13C6-PFDA (surr.)	1	%	93	84	124	93
13C2-PFUnDA (surr.)	1	%	138	74	116	46
13C2-PFDoDA (surr.)	1	%	112	81	85	95
13C2-PFTeDA (surr.)	1	%	153	105	98	116
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

Client Sample ID			SX_IB_202205 23_07_59_SS TriPLICATE_EUF	SX_OB_20220 523_08_03_SS Primary_EUF	SX_OB_20220 523_11_49_SS Primary_EUF	SX_IB_202205 23_11_57_SS Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- My0056802	M22- My0056803	M22- My0056804	M22- My0056805
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
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	%	120	77	98	112
D3-N-MeFOSA (surr.)	1	%	104	62	84	100
D5-N-EtFOSA (surr.)	1	%	105	69	77	102
D7-N-MeFOSE (surr.)	1	%	118	63	112	102
D9-N-EtFOSE (surr.)	1	%	123	70	100	99
D5-N-EtFOSAA (surr.)	1	%	133	99	127	63
D3-N-MeFOSAA (surr.)	1	%	146	80	95	116
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	108	80	100	114
18O2-PFHxS (surr.)	1	%	145	70	88	82
13C8-PFOS (surr.)	1	%	143	77	134	115
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	141	72	75	130
13C2-6:2 FTSA (surr.)	1	%	139	119	86	108
13C2-8:2 FTSA (surr.)	1	%	120	48	75	95
13C2-10:2 FTSA (surr.)	1	%	138	75	86	109
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 523_15_58_SS _Primary_EUF	SX_OB_20220 523_15_59_SS _Duplicate_EU F	SX_OB_20220 523_20_08_SS _Primary_EUF	SX_OB_20220 523_20_09_SS _Duplicate_EU F
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- My0056806	M22- My0056807	M22- My0056808	M22- My0056809
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.1	5.1	5.1	5.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	77	85	90	74
13C5-PFPeA (surr.)	1	%	91	87	87	88
13C5-PFHxA (surr.)	1	%	73	75	77	61
13C4-PFHpA (surr.)	1	%	102	103	129	100
13C8-PFOA (surr.)	1	%	121	118	129	102
13C5-PFNA (surr.)	1	%	110	113	140	107
13C6-PFDA (surr.)	1	%	102	95	97	80
13C2-PFUnDA (surr.)	1	%	122	118	104	99
13C2-PFDoDA (surr.)	1	%	90	102	116	90
13C2-PFTTeDA (surr.)	1	%	99	133	132	104
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	%	107	104	124	97
D3-N-MeFOSA (surr.)	1	%	69	35	109	92
D5-N-EtFOSA (surr.)	1	%	70	36	107	89
D7-N-MeFOSE (surr.)	1	%	109	98	123	46
D9-N-EtFOSE (surr.)	1	%	92	93	113	97
D5-N-EtFOSAA (surr.)	1	%	139	30	124	96
D3-N-MeFOSAA (surr.)	1	%	127	119	129	143

Client Sample ID			SX_OB_20220 523_15_58_SS _Primary_EUF	SX_OB_20220 523_15_59_SS _Duplicate_EU F	SX_OB_20220 523_20_08_SS _Primary_EUF	SX_OB_20220 523_20_09_SS _Duplicate_EU F
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- My0056806	M22- My0056807	M22- My0056808	M22- My0056809
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	80	74	85	90
18O2-PFHxS (surr.)	1	%	85	132	117	104
13C8-PFOS (surr.)	1	%	128	117	126	106
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	90	90	111	101
13C2-6:2 FTSA (surr.)	1	%	112	68	113	93
13C2-8:2 FTSA (surr.)	1	%	90	89	106	84
13C2-10:2 FTSA (surr.)	1	%	87	100	132	102
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 23_20_20_SS _Primary_EUF	SX_OB_20220 524_00_11_SS _Primary_EUF	SX_IB_202205 24_04_16_SS _Primary_EUF	SX_OB_20220 524_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- My0056810	M22- My0056811	M22- My0056812	M22- My0056813
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.1	5.1	5.1	8.9

Client Sample ID			SX_IB_202205 23_20_20_SS Primary_EUF	SX_OB_20220 524_00_11_SS Primary_EUF	SX_IB_202205 24_04_16_SS Primary_EUF	SX_OB_20220 524_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- My0056810	M22- My0056811	M22- My0056812	M22- My0056813
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	75	94	79	84
13C5-PFPeA (surr.)	1	%	69	62	66	97
13C5-PFHxA (surr.)	1	%	82	67	97	76
13C4-PFHpA (surr.)	1	%	88	103	95	88
13C8-PFOA (surr.)	1	%	104	133	128	107
13C5-PFNA (surr.)	1	%	125	106	107	99
13C6-PFDA (surr.)	1	%	65	123	98	113
13C2-PFUnDA (surr.)	1	%	114	82	111	101
13C2-PFDoDA (surr.)	1	%	88	80	93	95
13C2-PFTeDA (surr.)	1	%	105	51	116	107
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	71	115	108
D3-N-MeFOSA (surr.)	1	%	89	157	127	102
D5-N-EtFOSA (surr.)	1	%	84	193	124	105
D7-N-MeFOSE (surr.)	1	%	102	145	122	124
D9-N-EtFOSE (surr.)	1	%	99	127	110	108
D5-N-EtFOSAA (surr.)	1	%	28	116	93	141
D3-N-MeFOSAA (surr.)	1	%	121	98	34	91
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoronanesulfonic 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_IB_202205 23_20_20_SS Primary_EUF	SX_OB_20220 524_00_11_SS Primary_EUF	SX_IB_202205 24_04_16_SS Primary_EUF	SX_OB_20220 524_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- My0056810	M22- My0056811	M22- My0056812	M22- My0056813
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	92	79	122	86
18O2-PFHxS (surr.)	1	%	130	142	105	91
13C8-PFOS (surr.)	1	%	123	110	127	113
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	132	130	130	76
13C2-6:2 FTSA (surr.)	1	%	173	51	125	74
13C2-8:2 FTSA (surr.)	1	%	98	94	76	94
13C2-10:2 FTSA (surr.)	1	%	105	73	106	107
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 23_07_59_SS Triplicate_EUF	SX_OB_20220 523_08_03_SS Primary_EUF	SX_OB_20220 523_11_49_SS Primary_EUF	SX_IB_202205 23_11_57_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- My0056814	M22- My0056815	M22- My0056816	M22- My0056817
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 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	6.4	6.4	6.4	6.4
pH (off)	0.1	pH Units	8.5	8.6	8.9	8.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_IB_202205 23_07_59_SS TriPLICATE_EUF	SX_OB_20220 523_08_03_SS Primary_EUF	SX_OB_20220 523_11_49_SS Primary_EUF	SX_IB_202205 23_11_57_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- My0056814	M22- My0056815	M22- My0056816	M22- My0056817
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	84	81	78	91
13C5-PFPeA (surr.)	1	%	68	110	94	100
13C5-PFHxA (surr.)	1	%	102	79	91	124
13C4-PFHpA (surr.)	1	%	123	99	95	123
13C8-PFOA (surr.)	1	%	143	107	107	127
13C5-PFNA (surr.)	1	%	133	132	95	125
13C6-PFDA (surr.)	1	%	89	105	102	85
13C2-PFUnDA (surr.)	1	%	135	102	112	139
13C2-PFDoDA (surr.)	1	%	110	83	90	109
13C2-PFTeDA (surr.)	1	%	115	109	95	134
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	%	110	99	101	116
D3-N-MeFOSA (surr.)	1	%	42	20	87	81
D5-N-EtFOSA (surr.)	1	%	44	18	81	80
D7-N-MeFOSE (surr.)	1	%	116	89	106	92
D9-N-EtFOSE (surr.)	1	%	95	76	95	110
D5-N-EtFOSAA (surr.)	1	%	144	60	106	101
D3-N-MeFOSAA (surr.)	1	%	157	112	102	171
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	97	95	103	111
18O2-PFHxS (surr.)	1	%	131	103	101	141
13C8-PFOS (surr.)	1	%	124	120	93	125

Client Sample ID			SX_IB_20220523_07_59_SS_Triplicate_EUF	SX_OB_20220523_08_03_SS_Primary_EUF	SX_OB_20220523_11_49_SS_Primary_EUF	SX_IB_20220523_11_57_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-My0056814	M22-My0056815	M22-My0056816	M22-My0056817
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	153	81	66	133
13C2-6:2 FTSA (surr.)	1	%	143	82	63	151
13C2-8:2 FTSA (surr.)	1	%	145	116	74	98
13C2-10:2 FTSA (surr.)	1	%	111	104	85	145
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220523_15_58_SS_Primary_EUF	SX_OB_20220523_15_59_SS_Duplicate_EUF	SX_OB_20220523_20_08_SS_Primary_EUF	SX_OB_20220523_20_09_SS_Duplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-My0056818	M22-My0056819	M22-My0056820	M22-My0056821
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 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	6.4	6.4	6.4	6.4
pH (off)	0.1	pH Units	8.5	8.6	8.6	9.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	74	72	56	89

Client Sample ID			SX_OB_20220 523_15_58_SS _Primary_EUF	SX_OB_20220 523_15_59_SS _Duplicate_EU F	SX_OB_20220 523_20_08_SS _Primary_EUF	SX_OB_20220 523_20_09_SS _Duplicate_EU F
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0056818	M22- My0056819	M22- My0056820	M22- My0056821
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	85	88	62	104
13C5-PFHxA (surr.)	1	%	75	69	54	86
13C4-PFHpA (surr.)	1	%	101	89	61	110
13C8-PFOA (surr.)	1	%	118	100	75	125
13C5-PFNA (surr.)	1	%	111	106	69	120
13C6-PFDA (surr.)	1	%	65	86	83	138
13C2-PFUnDA (surr.)	1	%	105	105	60	123
13C2-PFDoDA (surr.)	1	%	87	83	55	112
13C2-PFTeDA (surr.)	1	%	109	88	48	113
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	%	106	99	69	105
D3-N-MeFOSA (surr.)	1	%	100	86	39	22
D5-N-EtFOSA (surr.)	1	%	100	83	32	18
D7-N-MeFOSE (surr.)	1	%	100	87	65	74
D9-N-EtFOSE (surr.)	1	%	115	89	66	78
D5-N-EtFOSAA (surr.)	1	%	99	106	80	149
D3-N-MeFOSAA (surr.)	1	%	100	109	74	118
Perfluoroalkyl sulfonic acids (PFSAAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	81	67	52	73
18O2-PFHxS (surr.)	1	%	105	100	52	122
13C8-PFOS (surr.)	1	%	112	103	83	129

Client Sample ID			SX_OB_20220 523_15_58_SS _Primary_EUF	SX_OB_20220 523_15_59_SS _Duplicate_EU F	SX_OB_20220 523_20_08_SS _Primary_EUF	SX_OB_20220 523_20_09_SS _Duplicate_EU F
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- My0056818	M22- My0056819	M22- My0056820	M22- My0056821
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	93	64	50	96
13C2-6:2 FTSA (surr.)	1	%	87	71	64	108
13C2-8:2 FTSA (surr.)	1	%	87	82	65	89
13C2-10:2 FTSA (surr.)	1	%	108	93	53	109
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 23_20_20_SS _Primary_EUF	SX_OB_20220 524_00_11_SS _Primary_EUF	SX_IB_202205 24_04_16_SS _Primary_EUF	SX_OB_20220 524_04_22_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- My0056822	M22- My0056823	M22- My0056824	M22- My0056825
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	6.4	6.4	6.4	6.4
pH (off)	0.1	pH Units	8.7	8.9	8.8	5.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	68	70	78	84

Client Sample ID			SX_IB_202205 23_20_20_SS Primary_EUF	SX_OB_20220 524_00_11_SS _Primary_EUF	SX_IB_202205 24_04_16_SS _Primary_EUF	SX_OB_20220 524_04_22_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- My0056822	M22- My0056823	M22- My0056824	M22- My0056825
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	77	75	90	93
13C5-PFHxA (surr.)	1	%	108	71	108	72
13C4-PFHpA (surr.)	1	%	126	87	102	104
13C8-PFOA (surr.)	1	%	134	103	119	115
13C5-PFNA (surr.)	1	%	148	87	146	117
13C6-PFDA (surr.)	1	%	117	61	120	82
13C2-PFUnDA (surr.)	1	%	100	111	119	108
13C2-PFDoDA (surr.)	1	%	104	62	83	98
13C2-PFTeDA (surr.)	1	%	105	80	108	110
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	%	110	92	117	115
D3-N-MeFOSA (surr.)	1	%	55	93	78	54
D5-N-EtFOSA (surr.)	1	%	53	97	73	49
D7-N-MeFOSE (surr.)	1	%	102	82	96	95
D9-N-EtFOSE (surr.)	1	%	100	83	101	90
D5-N-EtFOSAA (surr.)	1	%	119	113	132	106
D3-N-MeFOSAA (surr.)	1	%	106	116	119	130
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	102	74	114	83
18O2-PFHxS (surr.)	1	%	109	101	132	115
13C8-PFOS (surr.)	1	%	118	92	137	105

Client Sample ID			SX_IB_202205 23_20_20_SS Primary_EUF	SX_OB_20220 524_00_11_SS Primary_EUF	SX_IB_202205 24_04_16_SS Primary_EUF	SX_OB_20220 524_04_22_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- My0056822	M22- My0056823	M22- My0056824	M22- My0056825
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	137	73	138	91
13C2-6:2 FTSA (surr.)	1	%	121	71	165	80
13C2-8:2 FTSA (surr.)	1	%	96	77	101	94
13C2-10:2 FTSA (surr.)	1	%	131	71	120	97
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

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
AUS Leaching Procedure			
pH (initial) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	May 24, 2022	0 Days
pH (Leachate fluid) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	May 24, 2022	0 Days
pH (off) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	May 24, 2022	0 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	

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Project Name:	20220524052813-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	- ALL SPOIL REPORTS WGTP

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_IB_20220523_07_59_SS_Triplicate_EU F	May 23, 2022	7:59AM	Soil	M22-My0056788		X	X	X
2	SX_OB_20220523_08_03_SS_Primary_EU F	May 23, 2022	8:03AM	Soil	M22-My0056789		X	X	X
3	SX_OB_20220523_11_49_SS_Primary_EU F	May 23, 2022	11:49AM	Soil	M22-My0056790		X	X	X

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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_IB_20220523_11_57_SS_Primary_EUF	May 23, 2022	11:57AM	Soil	M22-My0056791		X	X	X
5	SX_OB_20220523_15_58_S_Primary_EUF	May 23, 2022	3:58PM	Soil	M22-My0056792		X	X	X
6	SX_OB_20220523_15_59_S_Duplicate_EUF	May 23, 2022	3:59PM	Soil	M22-My0056793		X	X	X
7	SX_OB_20220523_16_30_S_R_Rinsate_EU	May 23, 2022	4:30PM	Water	M22-My0056794			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									
	F								
8	SX_OB_20220523_16_31_S B_Blank_EUF	May 23, 2022	4:31PM	Water	M22-My0056795			X	
9	SX_OB_20220523_20_08_S S_Primary_EUF	May 23, 2022	8:08PM	Soil	M22-My0056796		X	X	X
10	SX_OB_20220523_20_09_S S_Duplicate_EUF	May 23, 2022	8:09PM	Soil	M22-My0056797		X	X	X
11	SX_IB_20220523_20_20_SS	May 23, 2022	8:20PM	Soil	M22-My0056798		X	X	X

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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									
	_Primary_EUF								
12	SX_OB_20220524_00_11_S_S_Primary_EUF	May 24, 2022	12:11AM	Soil	M22-My0056799		X	X	X
13	SX_IB_20220524_04_16_SS_Primary_EUF	May 24, 2022	4:16AM	Soil	M22-My0056800		X	X	X
14	SX_OB_20220524_04_22_S_S_Primary_EUF	May 24, 2022	4:22AM	Soil	M22-My0056801		X	X	X
15	SX_IB_20220523_07_59_SS	May 23, 2022	7:59AM	AUS Leachate - pH 5.0	M22-My0056802	X		X	

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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									
	23_07_59_SS _TriPLICATE_EU F			- pH 5.0	My0056802				
16	SX_OB_20220 523_08_03_S S_Primary_EU F	May 23, 2022	8:03AM	AUS Leachate - pH 5.0	M22- My0056803	X		X	
17	SX_OB_20220 523_11_49_S S_Primary_EU F	May 23, 2022	11:49AM	AUS Leachate - pH 5.0	M22- My0056804	X		X	
18	SX_IB_202205 23_11_57_SS _Primary_EUF	May 23, 2022	11:57AM	AUS Leachate - pH 5.0	M22- My0056805	X		X	

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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									
19	SX_OB_20220523_15_58_S_S_Primary_EU_F	May 23, 2022	3:58PM	AUS Leachate - pH 5.0	M22-My0056806	X		X	
20	SX_OB_20220523_15_59_S_S_Duplicate_EU_F	May 23, 2022	3:59PM	AUS Leachate - pH 5.0	M22-My0056807	X		X	
21	SX_OB_20220523_20_08_S_S_Primary_EU_F	May 23, 2022	8:08PM	AUS Leachate - pH 5.0	M22-My0056808	X		X	
22	SX_OB_20220523_20_09_S	May 23, 2022	8:09PM	AUS Leachate - pH 5.0	M22-My0056809	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									
	S_Duplicate_EUF								
23	SX_IB_20220523_20_20_SS_Primary_EUF	May 23, 2022	8:20PM	AUS Leachate - pH 5.0	M22-My0056810	X		X	
24	SX_OB_20220524_00_11_SS_Primary_EUF	May 24, 2022	12:11AM	AUS Leachate - pH 5.0	M22-My0056811	X		X	
25	SX_IB_20220524_04_16_SS_Primary_EUF	May 24, 2022	4:16AM	AUS Leachate - pH 5.0	M22-My0056812	X		X	
26	SX_OB_20220524_04_22_S	May 24, 2022	4:22AM	AUS Leachate - pH 5.0	M22-My0056813	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									
	S_Primary_EU F								
27	SX_IB_202205 23_07_59_SS _Triplicate_EU F	May 23, 2022	7:59AM	AUS Leachate - Reagent Water	M22- My0056814	X		X	
28	SX_OB_20220 523_08_03_S S_Primary_EU F	May 23, 2022	8:03AM	AUS Leachate - Reagent Water	M22- My0056815	X		X	
29	SX_OB_20220 523_11_49_S S_Primary_EU F	May 23, 2022	11:49AM	AUS Leachate - Reagent Water	M22- My0056816	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									
30	SX_IB_20220523_11_57_SS_Primary_EUF	May 23, 2022	11:57AM	AUS Leachate - Reagent Water	M22-My0056817	X		X	
31	SX_OB_20220523_15_58_S_Primary_EUF	May 23, 2022	3:58PM	AUS Leachate - Reagent Water	M22-My0056818	X		X	
32	SX_OB_20220523_15_59_S_Duplicate_EUF	May 23, 2022	3:59PM	AUS Leachate - Reagent Water	M22-My0056819	X		X	
33	SX_OB_20220523_20_08_S_Primary_EU	May 23, 2022	8:08PM	AUS Leachate - Reagent Water	M22-My0056820	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									
	F								
34	SX_OB_20220523_20_09_SS_Duplicate_EUF	May 23, 2022	8:09PM	AUS Leachate - Reagent Water	M22-My0056821	X		X	
35	SX_IB_20220523_20_20_SS_Primary_EUF	May 23, 2022	8:20PM	AUS Leachate - Reagent Water	M22-My0056822	X		X	
36	SX_OB_20220524_00_11_SS_Primary_EUF	May 24, 2022	12:11AM	AUS Leachate - Reagent Water	M22-My0056823	X		X	
37	SX_IB_20220524_04_16_SS	May 24, 2022	4:16AM	AUS Leachate - Reagent	M22-My0056824	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									
	24_04_16_SS _Primary_EUF			- Reagent Water	My0056824				
38	SX_OB_20220 524_04_22_S S_Primary_EU F	May 24, 2022	4:22AM	AUS Leachate - Reagent Water	M22- My0056825	X		X	
Test Counts						24	12	38	12

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05		0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	107		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	135		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	81		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	90		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	111		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	97		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	72		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	102		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	91		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	93		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	80		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	71			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	91			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	95			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	118			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	75			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	132			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	56			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)								
Perfluorobutanesulfonic acid (PFBS)	%	61			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	61			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	70			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	93			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	103			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	90			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	77			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	64			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	81			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	61			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	122			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	85			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-My0056820	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances								
				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0056820	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0056820	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0056820	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0056820	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0056820	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-My0056820	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0056820	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0056820	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0056820	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

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

Authorised by:

Michael Cassidy	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS
Mary Makarios	Senior Analyst-Sample Properties



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Accreditation Number 1261
Site Number 1254

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

Attention: **David Lawson**

Report **891110-S**
Project name **20220524052813-Eurofin-14**
Project ID **JC0927**
Received Date **May 24, 2022**

Client Sample ID			SX_IB_202205 23_07_59_SS TriPLICATE_EUF	SX_OB_20220 523_08_03_SS _Primary_EUF	SX_OB_20220 523_11_49_SS _Primary_EUF	SX_IB_202205 23_11_57_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056788	M22- My0056789	M22- My0056790	M22- My0056791
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_IB_202205 23_07_59_SS TriPLICATE_EUF	SX_OB_20220 523_08_03_SS Primary_EUF	SX_OB_20220 523_11_49_SS Primary_EUF	SX_IB_202205 23_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056788	M22- My0056789	M22- My0056790	M22- My0056791
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	65	63	60	74
Toluene-d8 (surr.)	1	%	62	66	62	79
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

Client Sample ID			SX_IB_202205 23_07_59_SS TriPLICATE_EUF	SX_OB_20220 523_08_03_SS Primary_EUF	SX_OB_20220 523_11_49_SS Primary_EUF	SX_IB_202205 23_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056788	M22- My0056789	M22- My0056790	M22- My0056791
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	51	58	74	74
p-Terphenyl-d14 (surr.)	1	%	58	64	56	60
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	55	53	61	54
Tetrachloro-m-xylene (surr.)	1	%	72	81	76	73

Client Sample ID			SX_IB_202205 23_07_59_SS TriPLICATE_EUF	SX_OB_20220 523_08_03_SS Primary_EUF	SX_OB_20220 523_11_49_SS Primary_EUF	SX_IB_202205 23_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056788	M22- My0056789	M22- My0056790	M22- My0056791
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	55	53	61	54
Tetrachloro-m-xylene (surr.)	1	%	72	81	76	73
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	%	52	50	42	74
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	200	200	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.9	8.7	8.6	8.6
% Moisture						
% Moisture	1	%	30	39	34	32
Heavy Metals						
Arsenic	2	mg/kg	17	53	43	26
Cadmium	1	mg/kg	< 1	< 1	< 1	< 1
Chromium	5	mg/kg	120	130	120	140
Copper	5	mg/kg	53	49	52	58
Lead	5	mg/kg	< 5	5.2	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 23_07_59_SS TriPLICATE_EUF	SX_OB_20220 523_08_03_SS Primary_EUF	SX_OB_20220 523_11_49_SS Primary_EUF	SX_IB_202205 23_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056788	M22- My0056789	M22- My0056790	M22- My0056791
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	160	120	140	160
Selenium	5	mg/kg	< 5	< 5	< 5	< 5
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	94	110	86	98
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 (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	59	59	70	100
13C5-PFPeA (surr.)	1	%	62	63	72	66
13C5-PFHxA (surr.)	1	%	65	64	76	80
13C4-PFHpA (surr.)	1	%	65	63	74	81
13C8-PFOA (surr.)	1	%	66	66	76	71
13C5-PFNA (surr.)	1	%	64	64	76	80
13C6-PFDA (surr.)	1	%	67	69	82	59
13C2-PFUnDA (surr.)	1	%	68	66	78	84
13C2-PFDoDA (surr.)	1	%	67	68	82	82
13C2-PFTeDA (surr.)	1	%	86	85	106	121
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	%	90	89	105	87
D3-N-MeFOSA (surr.)	1	%	97	95	106	84
D5-N-EtFOSA (surr.)	1	%	92	94	109	99
D7-N-MeFOSE (surr.)	1	%	65	65	75	191
D9-N-EtFOSE (surr.)	1	%	66	66	77	81
D5-N-EtFOSAA (surr.)	1	%	85	86	102	42
D3-N-MeFOSAA (surr.)	1	%	77	79	93	92

Client Sample ID			SX_IB_202205 23_07_59_SS TriPLICATE_EUF	SX_OB_20220 523_08_03_SS Primary_EUF	SX_OB_20220 523_11_49_SS Primary_EUF	SX_IB_202205 23_11_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056788	M22- My0056789	M22- My0056790	M22- My0056791
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	66	64	80	99
18O2-PFHxS (surr.)	1	%	59	60	66	84
13C8-PFOS (surr.)	1	%	64	64	79	103
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	62	62	71	87
13C2-6:2 FTSA (surr.)	1	%	65	64	70	63
13C2-8:2 FTSA (surr.)	1	%	65	72	80	78
13C2-10:2 FTSA (surr.)	1	%	75	73	83	19
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 523_15_58_SS Primary_EUF	SX_OB_20220 523_15_59_SS Duplicate_EU F	SX_OB_20220 523_20_08_SS Primary_EUF	SX_OB_20220 523_20_09_SS Duplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056792	M22- My0056793	M22- My0056796	M22- My0056797
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			SX_OB_20220 523_15_58_SS _Primary_EUF	SX_OB_20220 523_15_59_SS _Duplicate_EU F	SX_OB_20220 523_20_08_SS _Primary_EUF	SX_OB_20220 523_20_09_SS _Duplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056792	M22- My0056793	M22- My0056796	M22- My0056797
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 523_15_58_SS _Primary_EUF	SX_OB_20220 523_15_59_SS _Duplicate_EU F	SX_OB_20220 523_20_08_SS _Primary_EUF	SX_OB_20220 523_20_09_SS _Duplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056792	M22- My0056793	M22- My0056796	M22- My0056797
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	64	55	106	137
Toluene-d8 (surr.)	1	%	69	57	74	103
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	%	73	57	83	88
p-Terphenyl-d14 (surr.)	1	%	55	57	59	68

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056792	M22- My0056793	M22- My0056796	M22- My0056797
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 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
Dibutylchloendate (surr.)	1	%	61	59	92	76
Tetrachloro-m-xylene (surr.)	1	%	77	77	79	81
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
Dibutylchloendate (surr.)	1	%	61	59	92	76
Tetrachloro-m-xylene (surr.)	1	%	77	77	79	81
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

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056792	M22- My0056793	M22- My0056796	M22- My0056797
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 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	%	44	45	38	43
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	140	180	110	180
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.4	8.1	8.5	8.6
% Moisture						
% Moisture	1	%	35	35	32	33
Heavy Metals						
Arsenic	2	mg/kg	51	40	62	66
Cadmium	1	mg/kg	< 1	< 1	< 1	< 1
Chromium	5	mg/kg	130	110	160	160
Copper	5	mg/kg	54	52	82	72
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	140	140	210	190
Selenium	5	mg/kg	< 5	< 5	< 5	< 5
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	98	87	150	130
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	81	82	101	84
13C5-PFPeA (surr.)	1	%	88	110	112	90
13C5-PFHxA (surr.)	1	%	84	79	88	72

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056792	M22- My0056793	M22- My0056796	M22- My0056797
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	80	85	88	66
13C8-PFOA (surr.)	1	%	60	76	98	81
13C5-PFNA (surr.)	1	%	83	86	84	80
13C6-PFDA (surr.)	1	%	104	75	104	61
13C2-PFUnDA (surr.)	1	%	92	87	81	82
13C2-PFDoDA (surr.)	1	%	78	92	86	88
13C2-PFTeDA (surr.)	1	%	113	124	119	92
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	%	99	87	108	94
D3-N-MeFOSA (surr.)	1	%	89	81	113	76
D5-N-EtFOSA (surr.)	1	%	101	101	105	85
D7-N-MeFOSE (surr.)	1	%	90	51	98	42
D9-N-EtFOSE (surr.)	1	%	87	73	98	72
D5-N-EtFOSAA (surr.)	1	%	63	69	85	83
D3-N-MeFOSAA (surr.)	1	%	72	91	158	71
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	95	90	86	71
18O2-PFHxS (surr.)	1	%	83	82	87	70
13C8-PFOS (surr.)	1	%	95	91	94	94
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	72	73	83	74
13C2-6:2 FTSA (surr.)	1	%	71	58	77	74

Client Sample ID			SX_OB_20220 523_15_58_SS _Primary_EUF	SX_OB_20220 523_15_59_SS _Duplicate_EU F	SX_OB_20220 523_20_08_SS _Primary_EUF	SX_OB_20220 523_20_09_SS _Duplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056792	M22- My0056793	M22- My0056796	M22- My0056797
Date Sampled			May 23, 2022	May 23, 2022	May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-8:2 FTSA (surr.)	1	%	79	62	92	100
13C2-10:2 FTSA (surr.)	1	%	143	157	104	58
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_IB_202205 23_20_20_SS _Primary_EUF	SX_OB_20220 524_00_11_SS _Primary_EUF	SX_IB_202205 24_04_16_SS _Primary_EUF	SX_OB_20220 524_04_22_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056798	M22- My0056799	M22- My0056800	M22- My0056801
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethane	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

Client Sample ID			SX_IB_202205 23_20_20_SS Primary_EUF	SX_OB_20220 524_00_11_SS _Primary_EUF	SX_IB_202205 24_04_16_SS _Primary_EUF	SX_OB_20220 524_04_22_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056798	M22- My0056799	M22- My0056800	M22- My0056801
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	65	137	94	71
Toluene-d8 (surr.)	1	%	62	131	91	64

Client Sample ID			SX_IB_202205 23_20_20_SS Primary_EUF	SX_OB_20220 524_00_11_SS Primary_EUF	SX_IB_202205 24_04_16_SS Primary_EUF	SX_OB_20220 524_04_22_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056798	M22- My0056799	M22- My0056800	M22- My0056801
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	81	77	84	76
p-Terphenyl-d14 (surr.)	1	%	54	78	77	56
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_IB_202205 23_20_20_SS Primary_EUF	SX_OB_20220 524_00_11_SS _Primary_EUF	SX_IB_202205 24_04_16_SS _Primary_EUF	SX_OB_20220 524_04_22_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056798	M22- My0056799	M22- My0056800	M22- My0056801
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	98	92	62	64
Tetrachloro-m-xylene (surr.)	1	%	50	87	101	57
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	%	98	92	62	64
Tetrachloro-m-xylene (surr.)	1	%	50	87	101	57
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	%	36	46	41	38
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)	100	mg/kg	< 100	700	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.8	8.6	8.9	8.8
% Moisture	1	%	29	30	26	32

Client Sample ID			SX_IB_202205 23_20_20_SS Primary_EUF	SX_OB_20220 524_00_11_SS Primary_EUF	SX_IB_202205 24_04_16_SS Primary_EUF	SX_OB_20220 524_04_22_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056798	M22- My0056799	M22- My0056800	M22- My0056801
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	28	58	45	52
Cadmium	1	mg/kg	< 1	< 1	< 1	< 1
Chromium	5	mg/kg	160	150	140	160
Copper	5	mg/kg	81	130	92	68
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	230	260	260	190
Selenium	5	mg/kg	< 5	< 5	< 5	< 5
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	150	200	150	130
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	84	73	80	96
13C5-PFPeA (surr.)	1	%	100	88	89	103
13C5-PFHxA (surr.)	1	%	71	69	72	84
13C4-PFHpA (surr.)	1	%	66	67	68	75
13C8-PFOA (surr.)	1	%	81	75	68	85
13C5-PFNA (surr.)	1	%	81	90	69	89
13C6-PFDA (surr.)	1	%	119	66	106	132
13C2-PFUnDA (surr.)	1	%	106	97	75	104
13C2-PFDoDA (surr.)	1	%	83	65	62	83
13C2-PFTeDA (surr.)	1	%	85	103	94	104
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	%	119	86	106	119
D3-N-MeFOSA (surr.)	1	%	76	72	81	70

Client Sample ID			SX_IB_202205 23_20_20_SS Primary_EUF	SX_OB_20220 524_00_11_SS _Primary_EUF	SX_IB_202205 24_04_16_SS _Primary_EUF	SX_OB_20220 524_04_22_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- My0056798	M22- My0056799	M22- My0056800	M22- My0056801
Date Sampled			May 23, 2022	May 24, 2022	May 24, 2022	May 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	88	79	89	100
D7-N-MeFOSE (surr.)	1	%	58	74	46	107
D9-N-EtFOSE (surr.)	1	%	79	85	88	78
D5-N-EtFOSAA (surr.)	1	%	123	109	67	48
D3-N-MeFOSAA (surr.)	1	%	92	62	120	75
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	70	77	72	72
18O2-PFHxS (surr.)	1	%	98	52	68	97
13C8-PFOS (surr.)	1	%	92	101	104	77
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	84	69	86	70
13C2-6:2 FTSA (surr.)	1	%	68	85	75	71
13C2-8:2 FTSA (surr.)	1	%	110	92	130	108
13C2-10:2 FTSA (surr.)	1	%	48	51	105	106
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

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
IWRG 621 WGTP Suite			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	May 24, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	May 24, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	May 24, 2022	14 Days
Volatile Organics - Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS	Melbourne	May 24, 2022	7 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	May 24, 2022	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 24, 2022	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	May 24, 2022	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	May 24, 2022	28 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 24, 2022	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 24, 2022	14 Days
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection	Melbourne	May 24, 2022	28 Days
Cyanide (total) - Method: LTM-INO-4020 Total Free WAD Cyanide by CFA	Melbourne	May 25, 2022	14 Days
Fluoride (Total) - Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE	Melbourne	May 25, 2022	28 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	May 24, 2022	7 Days
Metals IWRG 621 : Metals M12 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	May 24, 2022	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	May 24, 2022	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	

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Project Name:	20220524052813-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	- ALL SPOIL REPORTS WGTP

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_IB_20220523_07_59_SS_Triplicate_EU F	May 23, 2022	7:59AM	Soil	M22-My0056788		X	X	X
2	SX_OB_20220523_08_03_SS_Primary_EU F	May 23, 2022	8:03AM	Soil	M22-My0056789		X	X	X
3	SX_OB_20220523_11_49_SS_Primary_EU F	May 23, 2022	11:49AM	Soil	M22-My0056790		X	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									
4	SX_IB_20220523_11_57_SS_Primary_EUF	May 23, 2022	11:57AM	Soil	M22-My0056791		X	X	X
5	SX_OB_20220523_15_58_S_Primary_EUF	May 23, 2022	3:58PM	Soil	M22-My0056792		X	X	X
6	SX_OB_20220523_15_59_S_Duplicate_EUF	May 23, 2022	3:59PM	Soil	M22-My0056793		X	X	X
7	SX_OB_20220523_16_30_S_R_Rinsate_EU	May 23, 2022	4:30PM	Water	M22-My0056794			X	

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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								
8	SX_OB_20220523_16_31_S B_Blank_EUF	May 23, 2022	4:31PM	Water	M22-My0056795			X	
9	SX_OB_20220523_20_08_S S_Primary_EUF	May 23, 2022	8:08PM	Soil	M22-My0056796		X	X	X
10	SX_OB_20220523_20_09_S S_Duplicate_EUF	May 23, 2022	8:09PM	Soil	M22-My0056797		X	X	X
11	SX_IB_20220523_20_20_SS	May 23, 2022	8:20PM	Soil	M22-My0056798		X	X	X

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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									
	_Primary_EUF								
12	SX_OB_20220524_00_11_S_S_Primary_EUF	May 24, 2022	12:11AM	Soil	M22-My0056799		X	X	X
13	SX_IB_20220524_04_16_SS_Primary_EUF	May 24, 2022	4:16AM	Soil	M22-My0056800		X	X	X
14	SX_OB_20220524_04_22_S_S_Primary_EUF	May 24, 2022	4:22AM	Soil	M22-My0056801		X	X	X
15	SX_IB_20220523_07_59_SS	May 23, 2022	7:59AM	AUS Leachate - pH 5.0	M22-My0056802	X		X	

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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									
	23_07_59_SS _Triplicate_EU F			- pH 5.0	My0056802				
16	SX_OB_20220 523_08_03_S S_Primary_EU F	May 23, 2022	8:03AM	AUS Leachate - pH 5.0	M22- My0056803	X		X	
17	SX_OB_20220 523_11_49_S S_Primary_EU F	May 23, 2022	11:49AM	AUS Leachate - pH 5.0	M22- My0056804	X		X	
18	SX_IB_202205 23_11_57_SS _Primary_EUF	May 23, 2022	11:57AM	AUS Leachate - pH 5.0	M22- My0056805	X		X	

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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									
19	SX_OB_20220523_15_58_S_S_Primary_EU_F	May 23, 2022	3:58PM	AUS Leachate - pH 5.0	M22-My0056806	X		X	
20	SX_OB_20220523_15_59_S_S_Duplicate_EU_F	May 23, 2022	3:59PM	AUS Leachate - pH 5.0	M22-My0056807	X		X	
21	SX_OB_20220523_20_08_S_S_Primary_EU_F	May 23, 2022	8:08PM	AUS Leachate - pH 5.0	M22-My0056808	X		X	
22	SX_OB_20220523_20_09_S	May 23, 2022	8:09PM	AUS Leachate - pH 5.0	M22-My0056809	X		X	

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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									
	S_Duplicate_EUF								
23	SX_IB_20220523_20_20_SS_Primary_EUF	May 23, 2022	8:20PM	AUS Leachate - pH 5.0	M22-My0056810	X		X	
24	SX_OB_20220524_00_11_SS_Primary_EUF	May 24, 2022	12:11AM	AUS Leachate - pH 5.0	M22-My0056811	X		X	
25	SX_IB_20220524_04_16_SS_Primary_EUF	May 24, 2022	4:16AM	AUS Leachate - pH 5.0	M22-My0056812	X		X	
26	SX_OB_20220524_04_22_S	May 24, 2022	4:22AM	AUS Leachate - pH 5.0	M22-My0056813	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									
	S_Primary_EU F								
27	SX_IB_202205 23_07_59_SS _Triplicate_EU F	May 23, 2022	7:59AM	AUS Leachate - Reagent Water	M22- My0056814	X		X	
28	SX_OB_20220 523_08_03_S S_Primary_EU F	May 23, 2022	8:03AM	AUS Leachate - Reagent Water	M22- My0056815	X		X	
29	SX_OB_20220 523_11_49_S S_Primary_EU F	May 23, 2022	11:49AM	AUS Leachate - Reagent Water	M22- My0056816	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									
30	SX_IB_20220523_11_57_SS_Primary_EUF	May 23, 2022	11:57AM	AUS Leachate - Reagent Water	M22-My0056817	X		X	
31	SX_OB_20220523_15_58_S_Primary_EUF	May 23, 2022	3:58PM	AUS Leachate - Reagent Water	M22-My0056818	X		X	
32	SX_OB_20220523_15_59_S_Duplicate_EUF	May 23, 2022	3:59PM	AUS Leachate - Reagent Water	M22-My0056819	X		X	
33	SX_OB_20220523_20_08_S_Primary_EU	May 23, 2022	8:08PM	AUS Leachate - Reagent Water	M22-My0056820	X		X	

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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								
34	SX_OB_20220523_20_09_SS_Duplicate_EUF	May 23, 2022	8:09PM	AUS Leachate - Reagent Water	M22-My0056821	X		X	
35	SX_IB_20220523_20_20_SS_Primary_EUF	May 23, 2022	8:20PM	AUS Leachate - Reagent Water	M22-My0056822	X		X	
36	SX_OB_20220524_00_11_SS_Primary_EUF	May 24, 2022	12:11AM	AUS Leachate - Reagent Water	M22-My0056823	X		X	
37	SX_IB_20220524_04_16_SS	May 24, 2022	4:16AM	AUS Leachate - Reagent	M22-My0056824	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									
	24_04_16_SS _Primary_EUF			- Reagent Water	My0056824				
38	SX_OB_20220 524_04_22_S S_Primary_EU F	May 24, 2022	4:22AM	AUS Leachate - Reagent Water	M22- My0056825	X		X	
Test Counts						24	12	38	12

Internal Quality Control Review and Glossary
General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

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

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

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

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/kg	< 5		5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5		5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5		5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5		5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5		5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5		5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5		5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5		5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5		5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5		5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5		5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5		5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5		5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5		5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5		5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10		10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10		10	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5		5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5		5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5		5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5		5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5		5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5		5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5		5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5		5	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10		10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5		5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons						
TRH C6-C9	%	109		70-130	Pass	
TRH C10-C14	%	97		70-130	Pass	
Naphthalene	%	76		70-130	Pass	
TRH C6-C10	%	108		70-130	Pass	
TRH >C10-C16	%	104		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1.1-Dichloroethene	%	103		70-130	Pass	
1.1.1-Trichloroethane	%	116		70-130	Pass	
1.2-Dichlorobenzene	%	111		70-130	Pass	
1.2-Dichloroethane	%	112		70-130	Pass	
Benzene	%	123		70-130	Pass	
Ethylbenzene	%	116		70-130	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	110		70-130	Pass	
Toluene	%	112		70-130	Pass	
Trichloroethene	%	121		70-130	Pass	
Xylenes - Total*	%	110		70-130	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	89		70-130	Pass	
Acenaphthylene	%	104		70-130	Pass	
Anthracene	%	98		70-130	Pass	
Benz(a)anthracene	%	93		70-130	Pass	
Benzo(a)pyrene	%	93		70-130	Pass	
Benzo(b&i)fluoranthene	%	79		70-130	Pass	
Benzo(g,h,i)perylene	%	86		70-130	Pass	
Benzo(k)fluoranthene	%	95		70-130	Pass	
Chrysene	%	97		70-130	Pass	
Dibenz(a,h)anthracene	%	94		70-130	Pass	
Fluoranthene	%	115		70-130	Pass	
Fluorene	%	112		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	94		70-130	Pass	
Naphthalene	%	103		70-130	Pass	
Phenanthrene	%	108		70-130	Pass	
Pyrene	%	111		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
Chlordanes - Total	%	96		70-130	Pass	
4,4'-DDD	%	129		70-130	Pass	
4,4'-DDE	%	93		70-130	Pass	
4,4'-DDT	%	84		70-130	Pass	
a-HCH	%	105		70-130	Pass	
Aldrin	%	123		70-130	Pass	
b-HCH	%	112		70-130	Pass	
d-HCH	%	106		70-130	Pass	
Dieldrin	%	102		70-130	Pass	
Endosulfan I	%	112		70-130	Pass	
Endosulfan II	%	127		70-130	Pass	
Endosulfan sulphate	%	90		70-130	Pass	
Endrin	%	108		70-130	Pass	
Endrin aldehyde	%	102		70-130	Pass	
Endrin ketone	%	72		70-130	Pass	
g-HCH (Lindane)	%	96		70-130	Pass	
Heptachlor	%	129		70-130	Pass	
Heptachlor epoxide	%	85		70-130	Pass	
Hexachlorobenzene	%	112		70-130	Pass	
Methoxychlor	%	81		70-130	Pass	
LCS - % Recovery						
Polychlorinated Biphenyls						
Aroclor-1260	%	85		70-130	Pass	
LCS - % Recovery						
Phenols (Halogenated)						
2-Chlorophenol	%	79		25-140	Pass	
2,4-Dichlorophenol	%	113		25-140	Pass	
2,4,5-Trichlorophenol	%	123		25-140	Pass	
2,4,6-Trichlorophenol	%	83		25-140	Pass	
2,6-Dichlorophenol	%	107		25-140	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
4-Chloro-3-methylphenol	%	71		25-140	Pass	
Pentachlorophenol	%	99		25-140	Pass	
Tetrachlorophenols - Total	%	115		25-140	Pass	
LCS - % Recovery						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	%	34		25-140	Pass	
2-Methyl-4,6-dinitrophenol	%	64		25-140	Pass	
2-Nitrophenol	%	82		25-140	Pass	
2,4-Dimethylphenol	%	84		25-140	Pass	
2,4-Dinitrophenol	%	105		25-140	Pass	
2-Methylphenol (o-Cresol)	%	65		25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	73		25-140	Pass	
4-Nitrophenol	%	71		25-140	Pass	
Dinoseb	%	68		25-140	Pass	
Phenol	%	55		25-140	Pass	
LCS - % Recovery						
Chromium (hexavalent)	%	71		70-130	Pass	
Cyanide (total)	%	97		70-130	Pass	
Fluoride (Total)	%	118		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	87		80-120	Pass	
Cadmium	%	98		80-120	Pass	
Chromium	%	89		80-120	Pass	
Copper	%	90		80-120	Pass	
Lead	%	92		80-120	Pass	
Mercury	%	101		80-120	Pass	
Molybdenum	%	91		80-120	Pass	
Nickel	%	90		80-120	Pass	
Selenium	%	94		80-120	Pass	
Silver	%	95		80-120	Pass	
Tin	%	89		80-120	Pass	
Zinc	%	89		80-120	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	61		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	60		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	62		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	61		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	50		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	62		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	61		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	51		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	50		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	54		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	63		50-150	Pass	
LCS - % Recovery						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	%	54		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	65		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	61		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	63		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	62		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	59		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	59			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFASs)								
Perfluorobutanesulfonic acid (PFBS)	%	57			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	57			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	58			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	57			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	59			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	53			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	60			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	54			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	61			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	61			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	60			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	60			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 C6-C9	M22-My0056788	CP	%	117		70-130	Pass	
TRH C10-C14	M22-My0056788	CP	%	112		70-130	Pass	
Naphthalene	M22-My0056788	CP	%	86		70-130	Pass	
TRH C6-C10	M22-My0056788	CP	%	115		70-130	Pass	
TRH >C10-C16	M22-My0056788	CP	%	120		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	M22-My0056788	CP	%	90		70-130	Pass	
1.1.1-Trichloroethane	M22-My0056788	CP	%	93		70-130	Pass	
1.2-Dichlorobenzene	M22-My0056788	CP	%	105		70-130	Pass	
1.2-Dichloroethane	M22-My0056788	CP	%	116		70-130	Pass	
Benzene	M22-My0056788	CP	%	96		70-130	Pass	
Ethylbenzene	M22-My0056788	CP	%	83		70-130	Pass	
m&p-Xylenes	M22-My0056788	CP	%	79		70-130	Pass	
o-Xylene	M22-My0056788	CP	%	82		70-130	Pass	
Toluene	M22-My0056788	CP	%	84		70-130	Pass	
Trichloroethene	M22-My0056788	CP	%	96		70-130	Pass	
Xylenes - Total*	M22-My0056788	CP	%	80		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	M22-My0046530	NCP	%	78		70-130	Pass	
Acenaphthylene	M22-My0046530	NCP	%	85		70-130	Pass	
Anthracene	M22-My0046530	NCP	%	80		70-130	Pass	
Benz(a)anthracene	M22-My0046530	NCP	%	79		70-130	Pass	
Benzo(a)pyrene	M22-My0046530	NCP	%	76		70-130	Pass	
Benzo(b&j)fluoranthene	M22-My0046530	NCP	%	75		70-130	Pass	
Benzo(g,h,i)perylene	M22-My0046530	NCP	%	112		70-130	Pass	
Benzo(k)fluoranthene	M22-My0046530	NCP	%	86		70-130	Pass	
Chrysene	M22-My0046530	NCP	%	77		70-130	Pass	
Dibenz(a,h)anthracene	M22-My0046530	NCP	%	72		70-130	Pass	
Fluoranthene	M22-My0046530	NCP	%	88		70-130	Pass	
Fluorene	M22-My0046530	NCP	%	86		70-130	Pass	
Indeno(1.2.3-cd)pyrene	M22-My0046530	NCP	%	82		70-130	Pass	
Naphthalene	M22-My0046530	NCP	%	89		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Phenanthrene	M22-My0046530	NCP	%	85		70-130	Pass	
Pyrene	M22-My0046530	NCP	%	89		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	M22-My0051420	NCP	%	104		70-130	Pass	
4.4'-DDD	M22-My0051420	NCP	%	101		70-130	Pass	
4.4'-DDE	M22-My0051420	NCP	%	127		70-130	Pass	
4.4'-DDT	M22-My0051420	NCP	%	72		70-130	Pass	
a-HCH	M22-My0051420	NCP	%	102		70-130	Pass	
Aldrin	M22-My0051420	NCP	%	98		70-130	Pass	
b-HCH	M22-My0051420	NCP	%	87		70-130	Pass	
d-HCH	M22-My0051420	NCP	%	98		70-130	Pass	
Dieldrin	M22-My0051420	NCP	%	110		70-130	Pass	
Endosulfan I	M22-My0051420	NCP	%	86		70-130	Pass	
Endosulfan II	M22-My0051420	NCP	%	92		70-130	Pass	
Endosulfan sulphate	M22-My0051420	NCP	%	113		70-130	Pass	
Endrin	M22-My0051420	NCP	%	109		70-130	Pass	
Endrin aldehyde	M22-My0051420	NCP	%	113		70-130	Pass	
Endrin ketone	M22-My0051420	NCP	%	84		70-130	Pass	
g-HCH (Lindane)	M22-My0051420	NCP	%	103		70-130	Pass	
Heptachlor	M22-My0051420	NCP	%	101		70-130	Pass	
Heptachlor epoxide	M22-My0051420	NCP	%	117		70-130	Pass	
Hexachlorobenzene	M22-My0051420	NCP	%	118		70-130	Pass	
Methoxychlor	M22-My0051420	NCP	%	78		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	M22-My0049086	NCP	%	85		70-130	Pass	
Aroclor-1260	M22-My0049086	NCP	%	110		70-130	Pass	
Spike - % Recovery								
Phenols (Halogenated)				Result 1				
2-Chlorophenol	M22-My0046530	NCP	%	78		30-130	Pass	
2,4-Dichlorophenol	M22-My0046530	NCP	%	81		30-130	Pass	
2,4,5-Trichlorophenol	M22-My0046530	NCP	%	74		30-130	Pass	
2,4,6-Trichlorophenol	M22-My0046530	NCP	%	75		30-130	Pass	
2,6-Dichlorophenol	M22-My0046530	NCP	%	78		30-130	Pass	
4-Chloro-3-methylphenol	M22-My0046530	NCP	%	81		30-130	Pass	
Pentachlorophenol	M22-My0046530	NCP	%	69		30-130	Pass	
Tetrachlorophenols - Total	M22-My0046530	NCP	%	76		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Cyclohexyl-4,6-dinitrophenol	M22-My0046530	NCP	%	42		30-130	Pass	
2-Methyl-4,6-dinitrophenol	M22-My0046530	NCP	%	41		30-130	Pass	
2-Nitrophenol	M22-My0046530	NCP	%	67		30-130	Pass	
2,4-Dimethylphenol	M22-My0046530	NCP	%	102		30-130	Pass	
2,4-Dinitrophenol	M22-My0046530	NCP	%	53		30-130	Pass	
2-Methylphenol (o-Cresol)	M22-My0046530	NCP	%	76		30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-My0046530	NCP	%	87		30-130	Pass	
4-Nitrophenol	M22-My0046530	NCP	%	69		30-130	Pass	
Dinoseb	M22-My0046530	NCP	%	52		30-130	Pass	
Phenol	M22-My0046530	NCP	%	71		30-130	Pass	
Spike - % Recovery								
				Result 1				
Cyanide (total)	M22-My0045980	NCP	%	36		70-130	Fail	Q08
Spike - % Recovery								

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals				Result 1				
Arsenic	M22-My0051609	NCP	%	82		75-125	Pass	
Cadmium	M22-My0051609	NCP	%	76		75-125	Pass	
Chromium	M22-My0051609	NCP	%	78		75-125	Pass	
Copper	M22-My0051609	NCP	%	91		75-125	Pass	
Lead	M22-My0051609	NCP	%	82		75-125	Pass	
Mercury	M22-My0051609	NCP	%	94		75-125	Pass	
Molybdenum	M22-My0051609	NCP	%	88		75-125	Pass	
Nickel	M22-My0051609	NCP	%	92		75-125	Pass	
Selenium	M22-My0051609	NCP	%	90		75-125	Pass	
Silver	M22-My0051609	NCP	%	80		75-125	Pass	
Tin	M22-My0051609	NCP	%	93		75-125	Pass	
Zinc	M22-My0051609	NCP	%	86		75-125	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	M22-My0056895	NCP	%	103		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0056895	NCP	%	110		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0056895	NCP	%	112		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0056895	NCP	%	114		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0056895	NCP	%	120		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-My0056895	NCP	%	123		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0056895	NCP	%	108		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-My0056895	NCP	%	112		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0056895	NCP	%	129		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-My0056895	NCP	%	92		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-My0056895	NCP	%	104		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				
Perfluorooctane sulfonamide (FOSA)	M22-My0056895	NCP	%	103		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0056895	NCP	%	112		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0056895	NCP	%	109		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0056895	NCP	%	119		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0056895	NCP	%	106		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0056895	NCP	%	100		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0056895	NCP	%	111		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1				
Perfluorobutanesulfonic acid (PFBS)	M22-My0056895	NCP	%	105		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-My0056895	NCP	%	108		50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-My0056895	NCP	%	104		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-My0056895	NCP	%	110		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-My0056895	NCP	%	104		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0056895	NCP	%	102			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-My0056895	NCP	%	109			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-My0056895	NCP	%	100			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0056895	NCP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0056895	NCP	%	114			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0056895	NCP	%	142			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0056895	NCP	%	105			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M22-My0056799	CP	%	111			70-130	Pass	
Naphthalene	M22-My0056799	CP	%	78			70-130	Pass	
TRH C6-C10	M22-My0056799	CP	%	110			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M22-My0056799	CP	%	95			70-130	Pass	
1.1.1-Trichloroethane	M22-My0056799	CP	%	104			70-130	Pass	
1.2-Dichlorobenzene	M22-My0056799	CP	%	123			70-130	Pass	
1.2-Dichloroethane	M22-My0056799	CP	%	127			70-130	Pass	
Benzene	M22-My0056799	CP	%	106			70-130	Pass	
Ethylbenzene	M22-My0056799	CP	%	102			70-130	Pass	
m&p-Xylenes	M22-My0056799	CP	%	97			70-130	Pass	
o-Xylene	M22-My0056799	CP	%	99			70-130	Pass	
Toluene	M22-My0056799	CP	%	97			70-130	Pass	
Trichloroethene	M22-My0056799	CP	%	111			70-130	Pass	
Xylenes - Total*	M22-My0056799	CP	%	97			70-130	Pass	
Spike - % Recovery									
Fluoride (Total)	M22-My0056801	CP	%	69			70-130	Fail	Q08
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M22-My0055295	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M22-My0055295	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M22-My0055295	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M22-My0055295	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M22-My0055295	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M22-My0055295	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Benzo(b&j)fluoranthene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M22-My0051612	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M22-My0051612	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M22-My0051612	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M22-My0051612	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M22-My0051612	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M22-My0051612	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M22-My0051612	NCP	mg/kg	< 10	< 10	<1	30%	Pass

Duplicate									
Phenols (non-Halogenated)					Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M22-My0051612	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4,6-dinitrophenol	M22-My0051612	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	M22-My0051612	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2,4-Dimethylphenol	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2,4-Dinitrophenol	M22-My0051612	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M22-My0051612	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-My0051612	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M22-My0051612	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M22-My0051612	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	M22-My0051612	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
					Result 1	Result 2	RPD		
Cyanide (total)	M22-My0051361	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Fluoride (Total)	M22-My0056788	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals					Result 1	Result 2	RPD		
Arsenic	M22-My0051608	NCP	mg/kg	8.2	8.4	3.0	30%	Pass	
Cadmium	M22-My0051608	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-My0051608	NCP	mg/kg	23	24	3.0	30%	Pass	
Copper	M22-My0051608	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M22-My0051608	NCP	mg/kg	12	12	6.0	30%	Pass	
Mercury	M22-My0051608	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-My0051608	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-My0051608	NCP	mg/kg	7.4	7.8	6.0	30%	Pass	
Selenium	M22-My0051608	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-My0051608	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-My0051608	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M22-My0051608	NCP	mg/kg	18	19	7.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)					Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances					Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0056886	NCP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0056886	NCP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0056886	NCP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0056886	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	M22-My0056797	CP	mg/kg	< 20	< 20	<1	30%	Pass
Naphthalene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	M22-My0056797	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Hexachlorobutadiene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trichlorobenzene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.2.3-Trichloropropane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	M22-My0056797	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	M22-My0056797	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-My0056797	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-My0056797	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-My0056797	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-My0056797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-My0056797	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-My0056799	CP	mg/kg	< 1	< 1	<1	30%	Pass
% Moisture	M22-My0056799	CP	%	30	30	1.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Fluoride (Total)	M22-My0056800	CP	mg/kg	< 100	< 100	<1	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

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

Authorised by:

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



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **David Lawson**

Report **891110-W**
Project name **20220524052813-Eurofin-14**
Project ID **JC0927**
Received Date **May 24, 2022**

Client Sample ID			SX_OB_20220 523_16_30_SR _Rinsate_EUF	SX_OB_20220 523_16_31_SB _Blank_EUF
Sample Matrix			Water	Water
Eurofins Sample No.			M22- My0056794	M22- My0056795
Date Sampled			May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	95	102
13C5-PFPeA (surr.)	1	%	102	97
13C5-PFHxA (surr.)	1	%	103	103
13C4-PFHpA (surr.)	1	%	91	101
13C8-PFOA (surr.)	1	%	100	87
13C5-PFNA (surr.)	1	%	90	83
13C6-PFDA (surr.)	1	%	51	65
13C2-PFUnDA (surr.)	1	%	65	57
13C2-PFDoDA (surr.)	1	%	88	98
13C2-PFTeDA (surr.)	1	%	68	69
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	%	76	70

Client Sample ID			SX_OB_20220 523_16_30_SR _Rinsate_EUF	SX_OB_20220 523_16_31_SB _Blank_EUF
Sample Matrix			Water	Water
Eurofins Sample No.			M22- My0056794	M22- My0056795
Date Sampled			May 23, 2022	May 23, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
D3-N-MeFOSA (surr.)	1	%	36	35
D5-N-EtFOSA (surr.)	1	%	40	35
D7-N-MeFOSE (surr.)	1	%	57	56
D9-N-EtFOSE (surr.)	1	%	52	56
D5-N-EtFOSAA (surr.)	1	%	74	49
D3-N-MeFOSAA (surr.)	1	%	46	75
Perfluoroalkyl sulfonic acids (PFASs)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	109	114
18O2-PFHxS (surr.)	1	%	96	62
13C8-PFOS (surr.)	1	%	87	77
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	60	64
13C2-6:2 FTSA (surr.)	1	%	79	103
13C2-8:2 FTSA (surr.)	1	%	84	102
13C2-10:2 FTSA (surr.)	1	%	39	110
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) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	May 24, 2022	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 24, 2022 11:14 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	891110	Due:	May 31, 2022
Project Name:	20220524052813-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	- ALL SPOIL REPORTS WGTP

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_IB_20220523_07_59_SS_Triplicate_EU F	May 23, 2022	7:59AM	Soil	M22-My0056788		X	X	X
2	SX_OB_20220523_08_03_SS_Primary_EU F	May 23, 2022	8:03AM	Soil	M22-My0056789		X	X	X
3	SX_OB_20220523_11_49_SS_Primary_EU F	May 23, 2022	11:49AM	Soil	M22-My0056790		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 24, 2022 11:14 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	891110	Due:	May 31, 2022
Project Name:	20220524052813-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	- ALL SPOIL REPORTS WGTP

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_IB_20220523_11_57_SS_Primary_EUF	May 23, 2022	11:57AM	Soil	M22-My0056791		X	X	X
5	SX_OB_20220523_15_58_S_Primary_EUF	May 23, 2022	3:58PM	Soil	M22-My0056792		X	X	X
6	SX_OB_20220523_15_59_S_Duplicate_EUF	May 23, 2022	3:59PM	Soil	M22-My0056793		X	X	X
7	SX_OB_20220523_16_30_S_R_Rinsate_EU	May 23, 2022	4:30PM	Water	M22-My0056794			X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	May 24, 2022 11:14 AM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	891110	Due:	May 31, 2022
Project Name:	20220524052813-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	- ALL SPOIL REPORTS WGTP

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								
8	SX_OB_20220523_16_31_S B_Blank_EUF	May 23, 2022	4:31PM	Water	M22-My0056795			X	
9	SX_OB_20220523_20_08_S S_Primary_EUF	May 23, 2022	8:08PM	Soil	M22-My0056796		X	X	X
10	SX_OB_20220523_20_09_S S_Duplicate_EUF	May 23, 2022	8:09PM	Soil	M22-My0056797		X	X	X
11	SX_IB_20220523_20_20_SS	May 23, 2022	8:20PM	Soil	M22-My0056798		X	X	X

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Project Name:	20220524052813-Eurofin-14	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	- ALL SPOIL REPORTS WGTP

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									
	_Primary_EUF								
12	SX_OB_20220524_00_11_S_S_Primary_EUF	May 24, 2022	12:11AM	Soil	M22-My0056799		X	X	X
13	SX_IB_20220524_04_16_SS_Primary_EUF	May 24, 2022	4:16AM	Soil	M22-My0056800		X	X	X
14	SX_OB_20220524_04_22_S_S_Primary_EUF	May 24, 2022	4:22AM	Soil	M22-My0056801		X	X	X
15	SX_IB_20220523_07_59_SS	May 23, 2022	7:59AM	AUS Leachate - pH 5.0	M22-My0056802	X		X	

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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									
	23_07_59_SS _TriPLICATE_EU F			- pH 5.0	My0056802				
16	SX_OB_20220 523_08_03_S S_Primary_EU F	May 23, 2022	8:03AM	AUS Leachate - pH 5.0	M22- My0056803	X		X	
17	SX_OB_20220 523_11_49_S S_Primary_EU F	May 23, 2022	11:49AM	AUS Leachate - pH 5.0	M22- My0056804	X		X	
18	SX_IB_202205 23_11_57_SS _Primary_EUF	May 23, 2022	11:57AM	AUS Leachate - pH 5.0	M22- My0056805	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									
19	SX_OB_20220523_15_58_S_S_Primary_EU_F	May 23, 2022	3:58PM	AUS Leachate - pH 5.0	M22-My0056806	X		X	
20	SX_OB_20220523_15_59_S_S_Duplicate_EU_F	May 23, 2022	3:59PM	AUS Leachate - pH 5.0	M22-My0056807	X		X	
21	SX_OB_20220523_20_08_S_S_Primary_EU_F	May 23, 2022	8:08PM	AUS Leachate - pH 5.0	M22-My0056808	X		X	
22	SX_OB_20220523_20_09_S	May 23, 2022	8:09PM	AUS Leachate - pH 5.0	M22-My0056809	X		X	

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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									
	S_Duplicate_EUF								
23	SX_IB_20220523_20_20_SS_Primary_EUF	May 23, 2022	8:20PM	AUS Leachate - pH 5.0	M22-My0056810	X		X	
24	SX_OB_20220524_00_11_SS_Primary_EUF	May 24, 2022	12:11AM	AUS Leachate - pH 5.0	M22-My0056811	X		X	
25	SX_IB_20220524_04_16_SS_Primary_EUF	May 24, 2022	4:16AM	AUS Leachate - pH 5.0	M22-My0056812	X		X	
26	SX_OB_20220524_04_22_S	May 24, 2022	4:22AM	AUS Leachate - pH 5.0	M22-My0056813	X		X	

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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									
	S_Primary_EU F								
27	SX_IB_202205 23_07_59_SS _Triplicate_EU F	May 23, 2022	7:59AM	AUS Leachate - Reagent Water	M22- My0056814	X		X	
28	SX_OB_20220 523_08_03_S S_Primary_EU F	May 23, 2022	8:03AM	AUS Leachate - Reagent Water	M22- My0056815	X		X	
29	SX_OB_20220 523_11_49_S S_Primary_EU F	May 23, 2022	11:49AM	AUS Leachate - Reagent Water	M22- My0056816	X		X	

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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									
30	SX_IB_20220523_11_57_SS_Primary_EUF	May 23, 2022	11:57AM	AUS Leachate - Reagent Water	M22-My0056817	X		X	
31	SX_OB_20220523_15_58_S_Primary_EUF	May 23, 2022	3:58PM	AUS Leachate - Reagent Water	M22-My0056818	X		X	
32	SX_OB_20220523_15_59_S_Duplicate_EUF	May 23, 2022	3:59PM	AUS Leachate - Reagent Water	M22-My0056819	X		X	
33	SX_OB_20220523_20_08_S_Primary_EU	May 23, 2022	8:08PM	AUS Leachate - Reagent Water	M22-My0056820	X		X	

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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									
	F								
34	SX_OB_20220523_20_09_SS_Duplicate_EUF	May 23, 2022	8:09PM	AUS Leachate - Reagent Water	M22-My0056821	X		X	
35	SX_IB_20220523_20_20_SS_Primary_EUF	May 23, 2022	8:20PM	AUS Leachate - Reagent Water	M22-My0056822	X		X	
36	SX_OB_20220524_00_11_SS_Primary_EUF	May 24, 2022	12:11AM	AUS Leachate - Reagent Water	M22-My0056823	X		X	
37	SX_IB_20220524_04_16_SS	May 24, 2022	4:16AM	AUS Leachate - Reagent	M22-My0056824	X		X	

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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									
	24_04_16_SS _Primary_EUF			- Reagent Water	My0056824				
38	SX_OB_20220 524_04_22_S S_Primary_EU F	May 24, 2022	4:22AM	AUS Leachate - Reagent Water	M22- My0056825	X		X	
Test Counts						24	12	38	12

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05		0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	118		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	143		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	94		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	95		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	104		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	94		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	106		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	116		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	82		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	105		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	89		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	75			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	81			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	99			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	119			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	84			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	111			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	69			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)								
Perfluorobutanesulfonic acid (PFBS)	%	74			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	87			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	77			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	83			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	85			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	52			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	104			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	75			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	128			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)	%	135			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	142			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	M22-My0063968	NCP	%	120		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0063968	NCP	%	103		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0063968	NCP	%	84		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0063968	NCP	%	105		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0063968	NCP	%	116		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-My0063968	NCP	%	89		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0063968	NCP	%	59		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-My0063968	NCP	%	86		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0063968	NCP	%	90		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-My0063968	NCP	%	86		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-My0063968	NCP	%	98		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	M22-My0063968	NCP	%	71		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0063968	NCP	%	105		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0063968	NCP	%	96		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0063968	NCP	%	108		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0063968	NCP	%	78		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0063968	NCP	%	48			50-150	Fail	Q08
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0063968	NCP	%	64			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-My0063968	NCP	%	98			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-My0063968	NCP	%	63			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-My0063968	NCP	%	94			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-My0063968	NCP	%	100			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-My0063968	NCP	%	83			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0063968	NCP	%	90			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-My0063968	NCP	%	100			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-My0063968	NCP	%	59			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0063968	NCP	%	120			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0063968	NCP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0063968	NCP	%	140			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0063968	NCP	%	144			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-My0042432	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTEDA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-My0042432	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-My0042432	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-My0042432	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-My0042432	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-My0042432	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-My0042432	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-My0042432	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)s				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)s				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-My0042432	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-My0042432	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

Michael Cassidy	Analytical Services Manager
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](#).

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CHAIN OF CUSTODY DOCUMENTATION

CLIENT: Agon Environmental
 ADDRESS / OFFICE: Melbourne
 PROJECT MANAGER (PM): Craig Timbur
 PROJECT ID: J09827
 P.O. NO.:
 SITE: 2022052305742-AL-S-14
 RESULTS REQUIRED (Raw): 5 days
 QUOTE NO.: ME-150-19 WSTP
 EMAIL INVOICE TO: (if different to report) labreports.TS1@agonenviro.com.au
 ANALYSIS REQUIRED (including SUITES (note - suite codes must be listed to attract suite prices))

SAMPLER: Dayle B - EP Risk, ES - EP Risk Will & Brandon - Agon
 MOBILE 1: +61 400 826 907 (Craig Timbur)
 MOBILE 2: +61 490 411 004 (David Lawson)
 EMAIL REPORT TO: labreports.TS1@agonenviro.com.au
agonenviro@esdcl.com.au
mchenhub@results1@wslr.com.au


SAMPLE INFORMATION (note: S = Soil, W=Water)		CONTAINER INFORMATION		ANALYSIS REQUIRED (including SUITES (note - suite codes must be listed to attract suite prices))		Notes:
ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles
21	SX_IB_20220521_08_00_SS_PRIMARY_ALS	S	21/05/2022	08:09	BUCKET	1
22	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	S	21/05/2022	08:10	BUCKET	1
23	SX_IB_20220521_11_55_SS_PRIMARY_ALS	S	21/05/2022	11:55	BUCKET	1
4	SX_OB_20220521_12_24_SR_Rinse_ALS	W	21/05/2022	12:24	BOTTLE	1
5	SX_OB_20220521_12_25_SR_Blank_ALS	W	21/05/2022	12:25	BOTTLE	1
6	SX_OB_20220521_16_01_SS_PRIMARY_ALS	S	21/05/2022	16:01	BUCKET	1
7	SX_IB_20220521_16_08_SS_Triplicate_ALS	S	21/05/2022	16:08	BUCKET	1
8	SX_IB_20220521_16_16_SS_PRIMARY_ALS	S	21/05/2022	16:16	BUCKET	1
9	SX_OB_20220521_20_07_SS_PRIMARY_ALS	S	21/05/2022	20:07	BUCKET	1
10	SX_IB_20220521_20_16_SS_Triplicate_ALS	S	21/05/2022	20:16	BUCKET	1
11	SX_OB_20220522_00_08_SS_PRIMARY_ALS	S	22/05/2022	00:08	BUCKET	1
12	SX_OB_20220522_04_10_SS_PRIMARY_ALS	S	22/05/2022	04:10	BUCKET	1
13	SX_IB_20220522_07_47_SS_PRIMARY_ALS	S	22/05/2022	7:47	BUCKET	1
14	SX_IB_20220522_08_14_SS_Triplicate_ALS	S	22/05/2022	8:14	BUCKET	1
15	SX_OB_20220522_11_56_SS_PRIMARY_ALS	S	22/05/2022	11:56	BUCKET	1
16	SX_OB_20220522_15_46_SS_Triplicate_ALS	S	22/05/2022	15:46	BUCKET	1
17	SX_OB_20220522_16_47_SS_Duplicate_ALS	S	22/05/2022	16:47	BUCKET	1
18	SX_OB_20220522_20_08_SS_PRIMARY_ALS	S	22/05/2022	20:08	BUCKET	1
19	SX_OB_20220523_00_13_SS_PRIMARY_ALS	S	23/05/2022	0:13	BUCKET	1
20	SX_OB_20220523_04_13_SS_PRIMARY_ALS	S	23/05/2022	4:13	BUCKET	1

RELEASING BY		RECEIVED BY		METHOD OF SHIPMENT	
Name:	Date:	Name:	Date:	Con' Note No:	Transport Co:
		Edix	23/5		
		AKS	1305		

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; V = VOA Vial (HCl Preserved); VS = VOA Vial (Sulfuric Preserved); SS = Sulfuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Class; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Solids; B = Unpreserved Bag.

AUSTRALIAN LABORATORY SERVICES P/L

COC Page 1 of 1



Environmental Division
 Melbourne
 Work Order Reference
EM2209472

1 telephone + 61-3-8549 9600

CERTIFICATE OF ANALYSIS

Work Order : **EM2209472**
Client : **AGON ENVIRONMENTAL PTY LTD**
Contact : DAVID LAWSON
Address : D1.1 63-85 TURNER STREET
 PORT MELBOURNE 3207

Telephone : ----
Project : JC0927
Order number : ----
C-O-C number : 20220523050742-ALS-14
Sampler : DB, ES, Will & Brandon
Site : 20220523050742-ALS-14
Quote number : EN/150/19 -WGTP -Bulk Sample Quote
No. of samples received : 38
No. of samples analysed : 38

Page : 1 of 54
Laboratory : Environmental Division Melbourne
Contact : Josh Alexander
Address : 4 Westall Rd Springvale VIC Australia 3171

Telephone : +61-3-8549 9600
Date Samples Received : 23-May-2022 13:05
Date Analysis Commenced : 24-May-2022
Issue Date : 30-May-2022 21:01



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
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: (EM2209472-004,005) PFAS analysis was performed by taking an aliquot of sample from the supplied container.
- EG048G: EM2209472 #1, the results for Hexavalent Chromium have been confirmed by re-extraction and re-analysis.
- EG048G: EM2209472 #1-3, 7, 8, 10, 12-20, the results for Hexavalent Chromium have been confirmed by re-extraction and re-analysis.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP074-UT: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074-WF: Where reported, Sum of trichlorobenzenes is the sum of the reported concentrations of 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene, and 1,3,5-Trichlorobenzene at or above the LOR.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.
- EN60-DI: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS	SX_IB_20220521_08_10_SS_DUPLICATE_A_LS	SX_IB_20220521_11_55_SS_Primary_ALS	SX_OB_20220521_16_01_SS_Primary_ALS	SX_IB_20220521_16_08_SS_Triplicate_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-001	EM2209472-002	EM2209472-003	EM2209472-006	EM2209472-007
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS	SX_IB_20220521_08_10_SS_DUPLICATE_A_LS	SX_IB_20220521_11_55_SS_Primary_ALS	SX_OB_20220521_16_01_SS_Primary_ALS	SX_IB_20220521_16_08_SS_Triplicate_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-001	EM2209472-002	EM2209472-003	EM2209472-006	EM2209472-007
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	91.2	83.3	80.9	84.5	87.5
13C8-PFOA	----	0.02	%	100	99.3	101	99.0	102



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220521_16_16_SS_Primary_ALS	SX_OB_20220521_20_07_SS_Primary_ALS	SX_IB_20220521_20_16_SS_Triplicate_ALS	SX_OB_20220522_00_08_SS_Primary_ALS	SX_OB_20220522_04_10_SS_Primary_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-008	EM2209472-009	EM2209472-010	EM2209472-011	EM2209472-012
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220521_16_16_SS_Primary_ALS	SX_OB_20220521_20_07_SS_Primary_ALS	SX_IB_20220521_20_16_SS_Triplicate_ALS	SX_OB_20220522_00_08_SS_Primary_ALS	SX_OB_20220522_04_10_SS_Primary_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-008	EM2209472-009	EM2209472-010	EM2209472-011	EM2209472-012
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	85.0	98.6	87.4	87.4	93.7
13C8-PFOA	----	0.02	%	98.0	101	100	98.4	92.5



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS	SX_IB_20220522_08_14_SS_Triplicate_ALS	SX_OB_20220522_11_56_SS_Primary_ALS	SX_OB_20220522_15_46_SS_Primary_ALS	SX_OB_20220522_15_47_SS_Duplicate_ALS
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-013	EM2209472-014	EM2209472-015	EM2209472-016	EM2209472-017
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS	SX_IB_20220522_08_14_SS_Triplicate_ALS	SX_OB_20220522_11_56_SS_Primary_ALS	SX_OB_20220522_15_46_SS_Primary_ALS	SX_OB_20220522_15_47_SS_Duplicate_ALS
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-013	EM2209472-014	EM2209472-015	EM2209472-016	EM2209472-017
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	92.4	91.5	99.4	92.7	96.8
13C8-PFOA	----	0.02	%	90.5	94.2	95.1	98.3	91.8



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	----	----
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	----	----
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	-----	-----
				Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	----	----
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	----	----
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	-----	-----
				Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	89.5	92.7	92.8	----	----
13C8-PFOA	----	0.02	%	98.1	92.2	97.1	----	----



Analytical Results

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

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI	SX_IB_20220521_11_55_SS_Primary_ALS DI	SX_OB_20220521_16_01_SS_Primary_ALS DI	SX_IB_20220521_16_08_SS_Triplicate_ALS DI
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-021	EM2209472-022	EM2209472-023	EM2209472-024	EM2209472-025
				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	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

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

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI	SX_IB_20220521_11_55_SS_Primary_ALS DI	SX_OB_20220521_16_01_SS_Primary_ALS DI	SX_IB_20220521_16_08_SS_Triplicate_ALS DI
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-021	EM2209472-022	EM2209472-023	EM2209472-024	EM2209472-025
				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	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	95.4	89.8	93.5	87.1	89.2
13C8-PFOA	----	0.02	%	99.5	94.6	94.9	97.9	101



Analytical Results

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

Sample ID

				SX_IB_20220521_16_16_SS_Primary_ALS_DI	SX_OB_20220521_20_07_SS_Primary_ALS_DI	SX_IB_20220521_20_16_SS_Triplicate_ALS_DI	SX_OB_20220522_00_08_SS_Primary_ALS_DI	SX_OB_20220522_04_10_SS_Primary_ALS_DI
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-026	EM2209472-027	EM2209472-028	EM2209472-029	EM2209472-030
				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	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

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

Sample ID

				SX_IB_20220521_16_16_SS_Primary_ALS_DI	SX_OB_20220521_20_07_SS_Primary_ALS_DI	SX_IB_20220521_20_16_SS_Triplicate_ALS_DI	SX_OB_20220522_00_08_SS_Primary_ALS_DI	SX_OB_20220522_04_10_SS_Primary_ALS_DI
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-026	EM2209472-027	EM2209472-028	EM2209472-029	EM2209472-030
				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	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	83.2	89.1	92.5	94.3	94.2
13C8-PFOA	----	0.02	%	100.0	100	96.9	96.5	97.6



Analytical Results

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

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS DI	SX_IB_20220522_08_14_SS_Triplicate_ALS DI	SX_OB_20220522_11_56_SS_Primary_ALS DI	SX_OB_20220522_15_46_SS_Primary_ALS DI	SX_OB_20220522_15_47_SS_Duplicate_ALS DI
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-031	EM2209472-032	EM2209472-033	EM2209472-034	EM2209472-035
				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	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

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

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS DI	SX_IB_20220522_08_14_SS_Triplicate_ALS DI	SX_OB_20220522_11_56_SS_Primary_ALS DI	SX_OB_20220522_15_46_SS_Primary_ALS DI	SX_OB_20220522_15_47_SS_Duplicate_ALS DI
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-031	EM2209472-032	EM2209472-033	EM2209472-034	EM2209472-035
				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	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	83.1	81.5	86.0	101	83.6
13C8-PFOA	----	0.02	%	94.2	105	98.4	98.3	99.0



Analytical Results

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

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS_DI	SX_OB_20220523_00_13_SS_Primary_ALS_DI	SX_OB_20220523_04_13_SS_Primary_ALS_DI	----	----
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	----	----
Compound	CAS Number	LOR	Unit	EM2209472-036	EM2209472-037	EM2209472-038	-----	-----
				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	0.02	µg/L	<0.02	<0.02	<0.02	----	----
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)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS_DI	SX_OB_20220523_00_13_SS_Primary_ALS_DI	SX_OB_20220523_04_13_SS_Primary_ALS_DI	----	----
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	----	----
Compound	CAS Number	LOR	Unit	EM2209472-036	EM2209472-037	EM2209472-038	-----	-----
				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	0.02	µg/L	<0.02	<0.02	<0.02	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	----	----
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	----	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	96.4	104	93.1	----	----
13C8-PFOA	----	0.02	%	101	101	103	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS	SX_IB_20220521_08_10_SS_DUPLICATE_A_LS	SX_IB_20220521_11_55_SS_Primary_ALS	SX_OB_20220521_16_01_SS_Primary_ALS	SX_IB_20220521_16_08_SS_Triplicate_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-001	EM2209472-002	EM2209472-003	EM2209472-006	EM2209472-007
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	7.7	7.6	7.7	7.8	7.8
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	26.4	29.7	27.7	32.4	43.1
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	19	20	20	35	44
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	118	119	126	76	133
Copper	7440-50-8	5	mg/kg	68	64	66	57	66
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	188	169	174	133	202
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	107	96	100	89	121
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	1.4	<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	240	190	220	200	200
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.0	9.1	8.7	8.2	9.5
After HCl pH	----	0.1	pH Unit	1.6	1.6	1.6	1.6	1.6
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.2	5.2	5.1	5.2	5.2
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	SX_IB_20220521_11_55_SS_Primary_ALS	SX_IB_20220521_16_01_SS_Primary_ALS	SX_IB_20220521_16_08_SS_Triplicate_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-001	EM2209472-002	EM2209472-003	EM2209472-006	EM2209472-007
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS	SX_IB_20220521_08_10_SS_DUPLICATE_A_LS	SX_IB_20220521_11_55_SS_Primary_ALS	SX_OB_20220521_16_01_SS_Primary_ALS	SX_IB_20220521_16_08_SS_Triplicate_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-001	EM2209472-002	EM2209472-003	EM2209472-006	EM2209472-007
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS	SX_IB_20220521_08_10_SS_DUPLICATE_A_LS	SX_IB_20220521_11_55_SS_Primary_ALS	SX_OB_20220521_16_01_SS_Primary_ALS	SX_IB_20220521_16_08_SS_Triplicate_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-001	EM2209472-002	EM2209472-003	EM2209472-006	EM2209472-007
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	SX_IB_20220521_11_55_SS_Primary_ALS	SX_OB_20220521_16_01_SS_Primary_ALS	SX_IB_20220521_16_08_SS_Triplicate_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-001	EM2209472-002	EM2209472-003	EM2209472-006	EM2209472-007
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	SX_IB_20220521_11_55_SS_Primary_ALS	SX_OB_20220521_16_01_SS_Primary_ALS	SX_IB_20220521_16_08_SS_Triplicate_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-001	EM2209472-002	EM2209472-003	EM2209472-006	EM2209472-007
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_08_09_SS_PRIMARY_ALS	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	SX_IB_20220521_11_55_SS_Primary_ALS	SX_OB_20220521_16_01_SS_Primary_ALS	SX_IB_20220521_16_08_SS_Triplicate_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-001	EM2209472-002	EM2209472-003	EM2209472-006	EM2209472-007
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	102	110	109	109	112
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	81.6	94.6	95.5	84.3	62.4
Toluene-D8	2037-26-5	0.1	%	77.1	92.1	92.1	78.6	59.9
4-Bromofluorobenzene	460-00-4	0.1	%	91.7	106	108	93.8	81.3
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	114	119	110	115	107
2-Chlorophenol-D4	93951-73-6	0.025	%	89.6	100	96.1	92.6	96.5
2,4,6-Tribromophenol	118-79-6	0.025	%	94.8	105	102	99.3	101
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	94.5	102	100	85.9	90.2
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	91.3	99.2	96.3	83.0	92.9
2-Fluorobiphenyl	321-60-8	0.025	%	103	111	110	110	106
Anthracene-d10	1719-06-8	0.025	%	96.4	107	104	103	105
4-Terphenyl-d14	1718-51-0	0.025	%	92.4	96.1	94.0	92.9	89.3
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	97.7	90.5	93.6	102	88.4
13C8-PFOA	----	0.0002	%	105	100	96.0	98.9	101



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220521_16_16_SS_Primary_ALS	SX_OB_20220521_20_07_SS_Primary_ALS	SX_IB_20220521_20_16_SS_Triplicate_ALS	SX_OB_20220522_00_08_SS_Primary_ALS	SX_OB_20220522_04_10_SS_Primary_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	
Compound	CAS Number	LOR	Unit	EM2209472-008	EM2209472-009	EM2209472-010	EM2209472-011	EM2209472-012	
				Result	Result	Result	Result	Result	
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit	7.6	7.8	7.7	7.8	7.8	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	30.6	30.8	28.5	32.2	30.7	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	22	45	28	43	58	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	
Chromium	7440-47-3	5	mg/kg	122	87	113	83	97	
Copper	7440-50-8	5	mg/kg	64	62	63	53	56	
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5	
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5	
Nickel	7440-02-0	5	mg/kg	175	147	161	142	146	
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5	
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2	
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10	
Zinc	7440-66-6	5	mg/kg	100	92	85	81	87	
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	1.2	<1.0	1.2	<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	240	140	220	170	190	
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit	9.3	8.1	8.9	8.8	8.4	
After HCl pH	----	0.1	pH Unit	1.6	1.6	1.6	1.6	1.6	
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0	
Final pH	----	0.1	pH Unit	5.2	5.1	5.2	5.2	1.0	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	
EP074A: Monocyclic Aromatic Hydrocarbons									
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_16_16_SS_Primary_ALS	SX_OB_20220521_20_07_SS_Primary_ALS	SX_IB_20220521_20_16_SS_Triplicate_ALS	SX_OB_20220522_00_08_SS_Primary_ALS	SX_OB_20220522_04_10_SS_Primary_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-008	EM2209472-009	EM2209472-010	EM2209472-011	EM2209472-012
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3	106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
[^] Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
[^] Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
[^] Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
[^] Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_16_16_SS_Primary_ALS	SX_OB_20220521_20_07_SS_Primary_ALS	SX_IB_20220521_20_16_SS_Triplicate_ALS	SX_OB_20220522_00_08_SS_Primary_ALS	SX_OB_20220522_04_10_SS_Primary_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-008	EM2209472-009	EM2209472-010	EM2209472-011	EM2209472-012
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_16_16_SS_Primary_ALS	SX_OB_20220521_20_07_SS_Primary_ALS	SX_IB_20220521_20_16_SS_Triplicate_ALS	SX_OB_20220522_00_08_SS_Primary_ALS	SX_OB_20220522_04_10_SS_Primary_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-008	EM2209472-009	EM2209472-010	EM2209472-011	EM2209472-012
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220521_16_16_SS_Primary_ALS	SX_OB_20220521_20_07_SS_Primary_ALS	SX_IB_20220521_20_16_SS_Triplicate_ALS	SX_OB_20220522_00_08_SS_Primary_ALS	SX_OB_20220522_04_10_SS_Primary_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	
Compound	CAS Number	LOR	Unit	EM2209472-008	EM2209472-009	EM2209472-010	EM2209472-011	EM2209472-012	
				Result	Result	Result	Result	Result	
EP075I: Organochlorine Pesticides - Continued									
^ Sum of other organochlorine pesticides				----	0.03	mg/kg	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction				----	20	mg/kg	<20	<20	<20
C10 - C14 Fraction				----	50	mg/kg	<50	<50	<50
C6 - C10 Fraction				C6_C10	20	mg/kg	<20	<20	<20
C15 - C28 Fraction				----	100	mg/kg	<100	<100	<100
C29 - C36 Fraction				----	100	mg/kg	<100	<100	<100
^ C10 - C36 Fraction (sum)				----	50	mg/kg	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
>C10 - C16 Fraction				----	50	mg/kg	<50	<50	<50
>C16 - C34 Fraction				----	100	mg/kg	<100	<100	<100
>C34 - C40 Fraction				----	100	mg/kg	<100	<100	<100
^ >C10 - C40 Fraction (sum)				----	50	mg/kg	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)				----	50	mg/kg	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)				C6_C10-BTEX	20	mg/kg	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)				375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)				2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)				355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)				375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)				1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)				335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)				375-22-4	5	µg/kg	<5	<5	<5
Perfluoropentanoic acid (PFPeA)				2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)				307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)				375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220521_16_16_SS_Primary_ALS	SX_OB_20220521_20_07_SS_Primary_ALS	SX_IB_20220521_20_16_SS_Triplicate_ALS	SX_OB_20220522_00_08_SS_Primary_ALS	SX_OB_20220522_04_10_SS_Primary_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	
Compound	CAS Number	LOR	Unit	EM2209472-008	EM2209472-009	EM2209472-010	EM2209472-011	EM2209472-012	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_IB_20220521_16_16_SS_Primary_ALS	SX_OB_20220521_20_07_SS_Primary_ALS	SX_IB_20220521_20_16_SS_Triplicate_ALS	SX_OB_20220522_00_08_SS_Primary_ALS	SX_OB_20220522_04_10_SS_Primary_ALS
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	
Compound	CAS Number	LOR	Unit	EM2209472-008	EM2209472-009	EM2209472-010	EM2209472-011	EM2209472-012	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	116	120	109	113	103	
EP074S: VOC Surrogates (Ultra-Trace)									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	73.3	67.1	75.0	86.1	94.3	
Toluene-D8	2037-26-5	0.1	%	67.6	64.3	70.0	82.2	93.3	
4-Bromofluorobenzene	460-00-4	0.1	%	84.2	87.7	89.3	94.0	105	
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%	115	117	96.6	100	90.9	
2-Chlorophenol-D4	93951-73-6	0.025	%	102	99.2	94.0	97.2	88.2	
2,4,6-Tribromophenol	118-79-6	0.025	%	107	106	108	107	94.1	
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%	107	109	107	105	99.2	
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	102	94.9	96.3	97.2	89.7	
2-Fluorobiphenyl	321-60-8	0.025	%	114	116	113	112	104	
Anthracene-d10	1719-06-8	0.025	%	109	112	105	107	96.1	
4-Terphenyl-d14	1718-51-0	0.025	%	98.4	104	98.6	98.0	88.9	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	99.4	103	91.4	86.2	94.0	
13C8-PFOA	----	0.0002	%	96.5	98.6	94.0	97.2	103	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS	SX_IB_20220522_08_14_SS_Triplicate_ALS	SX_OB_20220522_11_56_SS_Primary_ALS	SX_OB_20220522_15_46_SS_Primary_ALS	SX_OB_20220522_15_47_SS_Duplicate_ALS
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-013	EM2209472-014	EM2209472-015	EM2209472-016	EM2209472-017
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	7.8	7.6	7.6	7.7	8.2
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	29.2	29.5	32.2	32.4	39.3
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	23	22	41	73	61
Cadmium	7440-43-9	1	mg/kg	<1	1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	124	118	98	92	105
Copper	7440-50-8	5	mg/kg	60	72	54	60	56
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	173	185	142	135	138
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	90	114	85	104	99
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	1.4	1.7	1.1	<1.0	1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	200	200	190	170	150
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.2	8.7	7.8	8.6	9.5
After HCl pH	----	0.1	pH Unit	1.6	1.6	1.6	1.6	1.6
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.2	5.1	5.1	5.1	6.6
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS	SX_IB_20220522_08_14_SS_Triplicate_ALS	SX_OB_20220522_11_56_SS_Primary_ALS	SX_OB_20220522_15_46_SS_Primary_ALS	SX_OB_20220522_15_47_SS_Duplicate_ALS
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-013	EM2209472-014	EM2209472-015	EM2209472-016	EM2209472-017
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS	SX_IB_20220522_08_14_SS_Triplicate_ALS	SX_OB_20220522_11_56_SS_Primary_ALS	SX_OB_20220522_15_46_SS_Primary_ALS	SX_OB_20220522_15_47_SS_Duplicate_ALS
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-013	EM2209472-014	EM2209472-015	EM2209472-016	EM2209472-017
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS	SX_IB_20220522_08_14_SS_Triplicate_ALS	SX_OB_20220522_11_56_SS_Primary_ALS	SX_OB_20220522_15_46_SS_Primary_ALS	SX_OB_20220522_15_47_SS_Duplicate_ALS
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-013	EM2209472-014	EM2209472-015	EM2209472-016	EM2209472-017
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS	SX_IB_20220522_08_14_SS_Triplicate_ALS	SX_OB_20220522_11_56_SS_Primary_ALS	SX_OB_20220522_15_46_SS_Primary_ALS	SX_OB_20220522_15_47_SS_Duplicate_ALS
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-013	EM2209472-014	EM2209472-015	EM2209472-016	EM2209472-017
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS	SX_IB_20220522_08_14_SS_Triplicate_ALS	SX_OB_20220522_11_56_SS_Primary_ALS	SX_OB_20220522_15_46_SS_Primary_ALS	SX_OB_20220522_15_47_SS_Duplicate_ALS
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-013	EM2209472-014	EM2209472-015	EM2209472-016	EM2209472-017
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220522_07_47_SS_Primary_ALS	SX_IB_20220522_08_14_SS_Triplicate_ALS	SX_OB_20220522_11_56_SS_Primary_ALS	SX_OB_20220522_15_46_SS_Primary_ALS	SX_OB_20220522_15_47_SS_Duplicate_ALS
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-013	EM2209472-014	EM2209472-015	EM2209472-016	EM2209472-017
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	106	108	113	113	113
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	66.0	85.8	72.7	87.0	80.9
Toluene-D8	2037-26-5	0.1	%	62.4	80.9	67.6	82.6	78.3
4-Bromofluorobenzene	460-00-4	0.1	%	77.9	98.0	88.2	95.7	87.1
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	95.5	91.2	98.2	107	107
2-Chlorophenol-D4	93951-73-6	0.025	%	93.1	86.5	93.0	101	98.7
2,4,6-Tribromophenol	118-79-6	0.025	%	102	93.3	101	102	104
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	101	90.2	99.2	100.0	101
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	93.5	80.0	89.1	97.9	95.8
2-Fluorobiphenyl	321-60-8	0.025	%	107	102	110	114	112
Anthracene-d10	1719-06-8	0.025	%	100	97.0	103	108	106
4-Terphenyl-d14	1718-51-0	0.025	%	92.6	88.8	95.4	101	99.2
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	98.6	90.8	90.8	98.0	104
13C8-PFOA	----	0.0002	%	105	101	98.2	100	99.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	EM2209472-021	EM2209472-022
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	7.7	7.8	7.4	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	34.2	38.4	33.6	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	63	80	53	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	5	mg/kg	94	106	101	----	----
Copper	7440-50-8	5	mg/kg	46	59	45	----	----
Lead	7439-92-1	5	mg/kg	6	<5	<5	----	----
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	----	----
Nickel	7440-02-0	5	mg/kg	115	116	114	----	----
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	76	75	74	----	----
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	120	120	150	----	----
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	8.2	8.2	8.3	----	----
After HCl pH	----	0.1	pH Unit	1.6	1.6	1.6	----	----
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	----	----
Final pH	----	0.1	pH Unit	5.2	5.1	5.1	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	----	----	----	7.2	9.1
EP066: Polychlorinated Biphenyls (PCB)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	EM2209472-021	EM2209472-022
				Result	Result	Result	Result	Result
EP066: Polychlorinated Biphenyls (PCB) - Continued								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
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	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	EM2209472-021	EM2209472-022
				Result	Result	Result	Result	Result
EP074I: Volatile Halogenated Compounds - Continued								
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	----	----
EP075A: Phenolic Compounds (Halogenated)								
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	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	EM2209472-021	EM2209472-022
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
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	----	----
Benzo(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
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	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	EM2209472-021	EM2209472-022
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	----	----
^ 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	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	EM2209472-021	EM2209472-022
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids - Continued								
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	----	----
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	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	EM2209472-021	EM2209472-022
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	----	----
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	%	106	110	108	----	----
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	72.7	72.4	83.4	----	----
Toluene-D8	2037-26-5	0.1	%	68.1	67.4	79.8	----	----
4-Bromofluorobenzene	460-00-4	0.1	%	85.6	81.5	90.2	----	----
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	99.0	107	97.4	----	----
2-Chlorophenol-D4	93951-73-6	0.025	%	93.5	98.0	91.9	----	----
2,4,6-Tribromophenol	118-79-6	0.025	%	97.5	99.4	100	----	----
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220522_20_08_SS_Primary_ALS	SX_OB_20220523_00_13_SS_Primary_ALS	SX_OB_20220523_04_13_SS_Primary_ALS	SX_IB_20220521_08_09_SS_PRIMARY_ALS DI	SX_IB_20220521_08_10_SS_DUPLICATE_A LS DI
Sampling date / time				22-May-2022 00:00	23-May-2022 00:00	23-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-018	EM2209472-019	EM2209472-020	EM2209472-021	EM2209472-022
				Result	Result	Result	Result	Result
EP075T: Base/Neutral Extractable Surrogates (Waste Classification) - Continued								
Nitrobenzene-D5	4165-60-0	0.025	%	97.1	101	96.6	----	----
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	90.2	93.5	91.6	----	----
2-Fluorobiphenyl	321-60-8	0.025	%	102	111	106	----	----
Anthracene-d10	1719-06-8	0.025	%	97.7	103	99.5	----	----
4-Terphenyl-d14	1718-51-0	0.025	%	87.8	93.1	89.8	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	97.3	101	104	----	----
13C8-PFOA	----	0.0002	%	103	103	103	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_11_55_SS_Primary_ALS DI	SX_OB_20220521_16_01_SS_Primary_ALS DI	SX_IB_20220521_16_08_SS_Triplicate_ALS DI	SX_IB_20220521_16_16_SS_Primary_ALS DI	SX_OB_20220521_20_07_SS_Primary_ALS DI
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00	21-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-023	EM2209472-024	EM2209472-025	EM2209472-026	EM2209472-027
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.4	9.3	9.7	9.5	9.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220521_20_16_SS_Triplicate_ALS_DI	SX_OB_20220522_00_08_SS_Primary_ALS_DI	SX_OB_20220522_04_10_SS_Primary_ALS_DI	SX_IB_20220522_07_47_SS_Primary_ALS_DI	SX_IB_20220522_08_14_SS_Triplicate_ALS_DI
Sampling date / time				21-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-028	EM2209472-029	EM2209472-030	EM2209472-031	EM2209472-032
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.7	9.6	9.4	9.8	9.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220522_11 _56_SS_Primary_ALS DI	SX_OB_20220522_15 _46_SS_Primary_ALS DI	SX_OB_20220522_15 _47_SS_Duplicate_AL S DI	SX_OB_20220522_20 _08_SS_Primary_ALS DI	SX_OB_20220523_00 _13_SS_Primary_ALS DI
Sampling date / time				22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00	22-May-2022 00:00
Compound	CAS Number	LOR	Unit	EM2209472-033	EM2209472-034	EM2209472-035	EM2209472-036	EM2209472-037
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.0	9.5	10.4	9.4	9.5



Analytical Results

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

Sample ID

				SX_OB_20220523_04 _13_SS_Primary_ALS DI	----	----	----	----
				Sampling date / time	22-May-2022 00:00	----	----	----
<i>Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	EM2209472-038	-----	-----	-----	-----
				Result	----	----	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.1	----	----	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID		SX_OB_20220521_12 _24_SR_Rinsate_ALS	SX_OB_20220521_12 _25_SB_Blank_ALS	----	----	----
Sampling date / time			21-May-2022 00:00		21-May-2022 00:00		----	----	----
Compound	CAS Number	LOR	Unit	EM2209472-004	EM2209472-005	-----	-----	-----	
				Result	Result	---	---	---	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	----	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	----	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SX_OB_20220521_12 _24_SR_Rinsate_ALS	SX_OB_20220521_12 _25_SB_Blank_ALS	----	----	----
Sampling date / time				21-May-2022 00:00	21-May-2022 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EM2209472-004	EM2209472-005	-----	-----	-----	
				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	%	80.8	92.5	----	----	----	
13C8-PFOA	----	0.02	%	101	101	----	----	----	



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	: EM2209472	Page	: 1 of 34
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	: 23-May-2022
Order number	: ----	Date Analysis Commenced	: 24-May-2022
C-O-C number	: 20220523050742-ALS-14	Issue Date	: 30-May-2022
Sampler	: DB, ES, Will & Brandon		
Site	: 20220523050742-ALS-14		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 38		
No. of samples analysed	: 38		



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
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: 4360229)									
EM2209419-011	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	102	107	4.5	0% - 20%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	172	149	14.5	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	23	36	45.3	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	58	57	1.8	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	113	97	14.9	0% - 20%
EM2209472-011	SX_OB_20220522_00_08_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	83	77	7.5	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	142	120	16.5	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	43	45	3.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	53	49	7.2	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	81	69	16.2	0% - 50%

EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4362542)



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: 4362542) - continued									
EM2209419-008	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.8	7.8	0.0	0% - 20%
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.7	7.6	0.0	0% - 20%
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4362543)									
EM2209472-014	SX_IB_20220522_08_14_S S_Triplicate_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.6	7.6	0.0	0% - 20%
EM2209562-003	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	8.0	8.1	0.0	0% - 20%
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4363981)									
EM2209471-003	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	4.2	4.3	0.0	0% - 20%
EM2209624-002	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	8.2	8.2	0.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4362778)									
EM2209419-001	Anonymous	EA055: Moisture Content	----	0.1	%	28.3	31.1	9.5	0% - 20%
EM2209472-002	SX_IB_20220521_08_10_S S_DUPLICATE_ALS	EA055: Moisture Content	----	0.1	%	29.7	29.3	1.2	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4362779)									
EM2209472-014	SX_IB_20220522_08_14_S S_Triplicate_ALS	EA055: Moisture Content	----	0.1	%	29.5	26.8	9.6	0% - 20%
EM2209624-004	Anonymous	EA055: Moisture Content	----	0.1	%	22.9	23.0	0.0	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4360228)									
EM2209419-011	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2209472-011	SX_OB_20220522_00_08_ 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: 4362028)									
EM2209419-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	1.8	57.8	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4362029)									
EM2209472-014	SX_IB_20220522_08_14_S S_Triplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	1.7	1.5	11.4	No Limit
EM2209624-003	Anonymous	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: 4362937)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EM2209482-001	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	<1	0.0	No Limit
EK040T: Fluoride Total (QC Lot: 4362007)									
EM2209419-001	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	190	170	8.2	No Limit
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	240	150	45.2	No Limit
EK040T: Fluoride Total (QC Lot: 4362008)									



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 (%)
EK040T: Fluoride Total (QC Lot: 4362008) - continued									
EM2209472-014	SX_IB_20220522_08_14_S S_Triplicate_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	200	220	8.8	No Limit
EM2209624-003	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	370	320	14.1	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4359090)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4356263)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4356263)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4356263)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit



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: 4356263) - continued									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit		
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit		
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4359089)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit



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: 4359089) - continued									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4359089)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4359089)									



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: 4359089) - continued									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit		
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit		
EP075I: Organochlorine Pesticides (QC Lot: 4359089)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit



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: 4359089) - continued									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	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
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4356263)									



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: 4356263) - continued									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4359091)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4356263)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4359091)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4362219)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4362219) - continued									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4362219)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit	
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit	
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4362219)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4362219) - continued									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		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: 4362219)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231P: PFAS Sums (QC Lot: 4362219)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
EM2209472-013	SX_IB_20220522_07_47_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit

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: 4366431)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2209669-003	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4366434)									
EM2209472-021	SX_IB_20220521_08_09_S S_PRIMARY_ALS DI	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
EM2209472-030	SX_OB_20220522_04_10_ SS_Primary_ALS DI	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)		
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4366434) - continued											
EM2209472-030	SX_OB_20220522_04_10_ SS_Primary_ALS DI	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: 4366486)											
EM2209472-012	SX_OB_20220522_04_10_ SS_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EM2209525-002	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4366431)											
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit		
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
		EM2209669-003	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
				EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
				EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluorononanoic acid (PFNA)	375-95-1			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7			0.05	µg/L	<0.05	<0.05	0.0	No Limit		
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4			0.1	µg/L	<0.1	<0.1	0.0	No Limit		



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: 4366434)										
EM2209472-021	SX_IB_20220521_08_09_S S_PRIMARY_ALS DI	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	
EM2209472-030	SX_OB_20220522_04_10_ SS_Primary_ALS DI	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	
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4366486)	EM2209472-012	SX_OB_20220522_04_10_ SS_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
			EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
			EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
			EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
			EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
			EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
			EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
			EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
			EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
			EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2209525-002	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	



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: 4366486) - continued									
EM2209525-002	Anonymous	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: 4366431)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2209669-003	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: 4366434)									
EM2209472-021	SX_IB_20220521_08_09_S S_PRIMARY_ALS DI	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



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: 4366434) - continued									
EM2209472-021	SX_IB_20220521_08_09_S S_PRIMARY_ALS DI	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
EM2209472-030	SX_OB_20220522_04_10_ SS_Primary_ALS DI	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: 4366486)									
EM2209472-012	SX_OB_20220522_04_10_ SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2209525-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4366486) - continued									
EM2209525-002	Anonymous	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4366431)									
EM2209472-001	SX_IB_20220521_08_09_S S_PRIMARY_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2209669-003	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: 4366434)									
EM2209472-021	SX_IB_20220521_08_09_S S_PRIMARY_ALS DI	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
EM2209472-030	SX_OB_20220522_04_10_ SS_Primary_ALS DI	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4366434) - continued									
EM2209472-030	SX_OB_20220522_04_10_SS_Primary_ALS DI	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: 4366486)									
EM2209472-012	SX_OB_20220522_04_10_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2209525-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<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: 4366431)									
EM2209472-001	SX_IB_20220521_08_09_S_S_PRIMARY_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EM2209669-003	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4366434)									
EM2209472-021	SX_IB_20220521_08_09_S_S_PRIMARY_ALS DI	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EM2209472-030	SX_OB_20220522_04_10_SS_Primary_ALS DI	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231P: PFAS Sums (QC Lot: 4366434) - continued									
EM2209472-030	SX_OB_20220522_04_10_ SS_Primary_ALS DI	EP231X: Sum of PFHxS and PFOS	355-46-4/1763- 23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4366486)									
EM2209472-012	SX_OB_20220522_04_10_ SS_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763- 23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EM2209525-002	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763- 23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4360229)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	97.7	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	50.4	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	100	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	93.0	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	91.3	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	89.4	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	96.2	70.0	130
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.9 mg/kg	93.8	70.0	130
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	93.9	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	75.4	70.0	130
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4364318)								
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.0	----	----	----	----
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4362542)								
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	100	98.8	101
					7 pH Unit	99.6	99.3	101
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4362543)								
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	101	98.8	101
					7 pH Unit	99.7	99.3	101
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4363981)								
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	100	98.8	101
					7 pH Unit	99.8	99.3	101
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4360228)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	93.0	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4362028)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	82.5	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4362029)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	83.8	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4362937)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	96.5	70.0	130
EK040T: Fluoride Total (QCLot: 4362007)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	80.9	75.2	110
EK040T: Fluoride Total (QCLot: 4362008)								



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EK040T: Fluoride Total (QCLot: 4362008) - continued									
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	102	75.2	110	
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4359090)									
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	105	67.4	136	
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4356263)									
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	92.1	69.2	116	
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	89.6	67.7	116	
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	86.4	66.6	115	
EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4.2 mg/kg	87.4	65.2	112	
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	85.6	69.4	111	
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	85.0	68.4	110	
EP074H: Naphthalene (QCLot: 4356263)									
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	90.8	72.3	114	
EP074I: Volatile Halogenated Compounds (QCLot: 4356263)									
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	92.3	47.0	138	
EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	91.9	57.6	125	
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	96.0	72.3	115	
EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	95.8	60.5	122	
EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	89.4	70.3	112	
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	88.6	66.6	115	
EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	84.8	64.4	122	
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	83.1	58.4	127	
EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	101	72.9	114	
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	87.6	64.7	115	
EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	89.8	72.6	116	
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	84.0	60.0	119	
EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	86.4	71.8	116	
EP074-UT: 1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	91.7	66.1	116	
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	80.2	39.8	128	
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	89.6	70.3	113	
EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	90.6	62.6	113	
EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	88.2	70.8	110	
EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	95.4	48.4	120	
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4359089)									
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	92.4	74.5	126	
EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	98.8	72.7	126	
EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	100	73.5	132	
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	102	72.8	128	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4359089) - continued								
EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	104	73.3	134
EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	102	72.4	128
EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	106	69.4	126
EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/5 8-90-2	0.05	mg/kg	<0.05	4 mg/kg	107	71.9	128
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	95.2	54.4	135
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4359089)								
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	115	71.5	130
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	92.1	73.4	129
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	87.2	74.3	129
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	98.4	70.9	133
EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	100	71.8	132
EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	70.6	41.0	156
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	99.7	65.3	134
EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	95.0	43.6	128
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	90.6	62.0	128
EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	69.9	34.5	137
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4359089)								
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	98.3	73.0	131
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	105	76.3	130
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	98.4	72.0	135
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	108	74.4	131
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	103	73.3	130
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	105	78.4	127
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	103	75.3	132
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	100	75.4	130
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	104	69.6	133
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	101	75.0	133
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	4 mg/kg	114	75.8	133
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	104	65.1	130
EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	132	72.1	134
EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	132	72.9	135
EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	97.4	71.3	134
EP075I: Organochlorine Pesticides (QCLot: 4359089)								
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	103	71.0	129
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	101	74.8	126
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	104	75.7	130



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075I: Organochlorine Pesticides (QCLot: 4359089) - continued									
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	103	70.8	130	
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	110	76.5	134	
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	101	75.5	131	
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	121	76.8	130	
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	127	73.6	130	
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	98.9	75.0	133	
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	103	75.3	131	
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	94.3	69.4	134	
EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	86.4	71.0	132	
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	91.4	78.0	133	
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	92.0	69.0	143	
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	85.4	55.7	145	
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	94.4	71.4	135	
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	93.8	74.8	134	
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	111	70.2	135	
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	95.3	77.7	133	
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	100	63.6	135	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4356263)									
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	84.8	61.1	119	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4359091)									
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	670 mg/kg	97.2	74.4	129	
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	2860 mg/kg	98.0	81.0	123	
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1490 mg/kg	89.6	81.8	121	
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	95.2	70.0	130	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4356263)									
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	82.1	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: 4359091)									
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1000 mg/kg	94.0	75.4	132	
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	3770 mg/kg	99.8	80.8	120	
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	104	73.3	136	
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	98.8	70.0	130	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4362219)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	98.1	72.0	128	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	91.8	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	73.2	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	104	70.0	132	



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4362219) - continued									
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	90.5	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	94.4	59.0	134	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4362219)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	98.3	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.0	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.1	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.2	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.6	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.9	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.6	64.0	136	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.0	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.3	66.0	139	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.3	69.0	133	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4362219)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.8	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	91.3	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	98.0	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	92.7	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.1	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.9	61.0	139	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4362219)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	99.3	62.0	145	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	91.0	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	112	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	124	70.0	130	
EP231P: PFAS Sums (QCLot: 4362219)									
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 High	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4362576)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	110	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	89.0	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	94.4	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	99.4	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	98.4	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	89.9	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4366431)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	101	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	105	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	95.3	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	93.4	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	89.9	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	95.8	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4366434)								
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	90.5	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	96.5	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	108	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	101	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	99.4	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4366486)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	98.4	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	98.4	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	92.6	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	98.5	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	87.8	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.4	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4362576)								
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	104	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	107	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	103	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	95.3	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	126	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	96.9	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	94.8	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	112	72.0	134
EP231X: Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	108	65.0	144



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4362576) - continued									
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	114	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4366431)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	77.5	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	108	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	86.0	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	104	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	96.1	71.0	133	
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	90.0	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	99.5	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	100	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	92.1	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	100.0	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4366434)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	109	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	106	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	107	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	107	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	105	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	111	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	101	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	105	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	107	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	127	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4366486)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	94.9	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	98.9	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	93.8	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	106	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	95.4	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	99.1	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	101	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	91.2	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	97.3	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	98.7	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	105	71.0	132	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4362576)									



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4362576) - continued									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	102	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	123	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	103	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	84.2	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	109	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	96.8	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	108	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4366431)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	99.3	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	91.8	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	80.2	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	102	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	108	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	105	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	106	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4366434)									
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	116	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	107	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	108	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	110	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	104	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4366486)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	97.4	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	99.7	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	94.1	70.0	130	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB)	Laboratory Control Spike (LCS) Report				
				Report	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
				Result		LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4366486) - continued									
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	95.8	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	102	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	100	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	95.5	61.0	135	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4362576)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	110	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	109	67.0	138	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	87.1	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4366431)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	107	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	101	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	130	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	117	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4366434)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	107	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	124	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	110	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4366486)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	103	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	112	67.0	138	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	109	70.0	130	
EP231P: PFAS Sums (QCLot: 4362576)									
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: 4366431)									
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----	



Sub-Matrix: WATER				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
Method: Compound	CAS Number	LOR	Unit		Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High
EP231P: PFAS Sums (QCLot: 4366434)								
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: 4366486)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%) MS	Acceptable Limits (%) Low High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4360229)							
EM2209472-001	SX_IB_20220521_08_09_SS_PRIMARY_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	81.9	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	88.5	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	97.7	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	94.5	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	88.5	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	83.1	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	83.3	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4360228)							
EM2209472-001	SX_IB_20220521_08_09_SS_PRIMARY_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	97.8	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4362028)							
EM2209419-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	80.5	58.0	114
EM2209419-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	98.0	58.0	114
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4362029)							
EM2209472-015	SX_OB_20220522_11_56_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	94.7	58.0	114
EM2209472-015	SX_OB_20220522_11_56_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	104	58.0	114
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4362937)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EK026SF: Total Cyanide	57-12-5	20 mg/kg	113	70.0	130
EK040T: Fluoride Total (QCLot: 4362007)							
EM2209419-002	Anonymous	EK040T: Fluoride	16984-48-8	400 mg/kg	84.4	70.0	130



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK040T: Fluoride Total (QCLot: 4362008)							
EM2209472-015	SX_OB_20220522_11_56_SS_Primary_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	74.2	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4359090)							
EM2209472-003	SX_IB_20220521_11_55_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	105	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4356263)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	108	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	107	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4356263)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	2 mg/kg	104	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	95.4	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	96.1	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4359089)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	97.7	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	122	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	101	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4359089)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP075-EM: Phenol	108-95-2	3 mg/kg	133	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	120	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4359089)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	117	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	110	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4356263)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	88.6	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4359091)							
EM2209472-006	SX_OB_20220521_16_01_SS_Primary_ALS	EP071-EM: C10 - C14 Fraction	----	670 mg/kg	102	71.3	126
		EP071-EM: C15 - C28 Fraction	----	2860 mg/kg	101	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1490 mg/kg	92.2	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5020 mg/kg	98.1	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4356263)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	85.3	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4359091)							
EM2209472-006	SX_OB_20220521_16_01_SS_Primary_ALS	EP071-EM: >C10 - C16 Fraction	----	1000 mg/kg	97.9	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	3770 mg/kg	102	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	250 mg/kg	109	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5020 mg/kg	101	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4362219)							



Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4362219) - continued							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	95.3	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	79.8	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	88.1	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	94.2	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	104	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	131	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4362219)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	94.7	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	96.8	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	104	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	99.3	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	100	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	90.0	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	98.5	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	91.3	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	92.4	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	81.4	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	93.9	69.0	133		
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4362219)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	98.0	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	99.1	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	98.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	96.8	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	91.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	92.8	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	92.0	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4362219)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	94.4	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	99.4	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	106	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	89.0	70.0	130

Sub-Matrix: **WATER**

Matrix Spike (MS) Report		
Spike	SpikeRecovery(%)	Acceptable Limits (%)



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: 4366431)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	115	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	80.1	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	78.2	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	98.4	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	88.3	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	80.3	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4366434)							
EM2209472-022	SX_IB_20220521_08_10_SS_DUPLICATE_ALS DI	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	83.2	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	86.2	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	92.6	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	91.9	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	69.4	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4366486)							
EM2209472-013	SX_IB_20220522_07_47_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	112	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	111	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	112	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
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4366431)							
EM2209472-002	SX_IB_20220521_08_10_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	100	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	98.8	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	102	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	98.0	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	130	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	90.2	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	96.5	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	103	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	93.4	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	116	71.0	132
		EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4366434)					
EM2209472-022	SX_IB_20220521_08_10_SS_DUPLICATE_ALS DI	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	92.4	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	95.6	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	105	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	98.4	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	94.7	71.0	133



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4366434) - continued							
EM2209472-022	SX_IB_20220521_08_10_SS_DUPLICATE_ALS DI	EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	123	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	91.0	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	87.6	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	85.6	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	71.7	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	88.0	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4366486)							
EM2209472-013	SX_IB_20220522_07_47_SS_Primary_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	107	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	105	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	109	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	109	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	102	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	113	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	108	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	109	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	105	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	112	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4366431)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	109	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	117	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	96.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	98.6	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	99.5	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	96.4	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	107	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4366434)							
EM2209472-022	SX_IB_20220521_08_10_SS_DUPLICATE_ALS DI	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	95.9	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	90.5	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	71.9	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	90.6	70.0	130



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4366434) - continued							
EM2209472-022	SX_IB_20220521_08_10_SS_DUPLICATE_ALS DI	EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	81.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	86.8	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	90.0	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4366486)							
EM2209472-013	SX_IB_20220522_07_47_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	95.6	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	121	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	110	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	109	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	108	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	107	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	102	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4366431)							
EM2209472-002	SX_IB_20220521_08_10_SS_DUPLICATE_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	105	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	100	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	106	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	76.3	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4366434)							
EM2209472-022	SX_IB_20220521_08_10_SS_DUPLICATE_ALS DI	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	96.8	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	127	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	115	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	70.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4366486)							
EM2209472-013	SX_IB_20220522_07_47_SS_Primary_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	106	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	99.6	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	77.4	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EM2209472	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	: 23-May-2022
Site	: 20220523050742-ALS-14	Issue Date	: 30-May-2022
Sampler	: DB, ES, Will & Brandon	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.**
- **NO Matrix Spike outliers occur.**
- **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

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**



Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type Method	Count		Rate (%)		Quality Control Specification
	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)					
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	6	77	7.79	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	3	77	3.90	5.00	NEPM 2013 B3 & ALS QC Standard

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_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	27-May-2022	28-May-2022	✔	27-May-2022	27-May-2022	✔
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	27-May-2022	29-May-2022	✔	27-May-2022	27-May-2022	✔
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	27-May-2022	30-May-2022	✔	27-May-2022	27-May-2022	✔



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	----	----	----	26-May-2022	04-Jun-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	----	----	----	26-May-2022	05-Jun-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	----	----	----	26-May-2022	06-Jun-2022	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	26-May-2022	17-Nov-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	18-Nov-2022	✓	26-May-2022	18-Nov-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	19-Nov-2022	✓	26-May-2022	19-Nov-2022	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	18-Jun-2022	✓	26-May-2022	18-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	19-Jun-2022	✓	26-May-2022	19-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	20-Jun-2022	✓	26-May-2022	20-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	
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	18-Jun-2022	✓	28-May-2022	02-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	19-Jun-2022	✓	28-May-2022	02-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	20-Jun-2022	✓	28-May-2022	02-Jun-2022	✓
EK026SF: Total CN by Segmented Flow Analyser								
Soil Glass Jar - Unpreserved (EK026SF) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	27-May-2022	04-Jun-2022	✓	30-May-2022	10-Jun-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	27-May-2022	05-Jun-2022	✓	30-May-2022	10-Jun-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	27-May-2022	06-Jun-2022	✓	30-May-2022	10-Jun-2022	✓
EK040T: Fluoride Total								
Soil Glass Jar - Unpreserved (EK040T) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	18-Jun-2022	✓	30-May-2022	18-Jun-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	19-Jun-2022	✓	30-May-2022	19-Jun-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	20-Jun-2022	✓	30-May-2022	20-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	
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	27-May-2022	17-Nov-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)								
SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	27-May-2022	18-Nov-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)								
SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	27-May-2022	19-Nov-2022	✓	----	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS - DI, SX_IB_20220521_11_55_SS_Primary_ALS - DI, SX_IB_20220521_16_08_SS_Triplicate_ALS - DI, SX_OB_20220521_20_07_SS_Primary_ALS - DI,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS - DI, SX_OB_20220521_16_01_SS_Primary_ALS - DI, SX_IB_20220521_16_16_SS_Primary_ALS - DI, SX_IB_20220521_20_16_SS_Triplicate_ALS - DI	21-May-2022	27-May-2022	17-Nov-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P)								
SX_OB_20220522_00_08_SS_Primary_ALS - DI, SX_IB_20220522_07_47_SS_Primary_ALS - DI, SX_OB_20220522_11_56_SS_Primary_ALS - DI, SX_OB_20220522_15_47_SS_Duplicate_ALS - DI, SX_OB_20220523_00_13_SS_Primary_ALS - DI,	SX_OB_20220522_04_10_SS_Primary_ALS - DI, SX_IB_20220522_08_14_SS_Triplicate_ALS - DI, SX_OB_20220522_15_46_SS_Primary_ALS - DI, SX_OB_20220522_20_08_SS_Primary_ALS - DI, SX_OB_20220523_04_13_SS_Primary_ALS - DI	22-May-2022	27-May-2022	18-Nov-2022	✓	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066-EM)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	04-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM)								
SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	05-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM)								
SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	06-Jun-2022	✓	26-May-2022	05-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_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	24-May-2022	28-May-2022	✓	25-May-2022	28-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	24-May-2022	29-May-2022	✓	25-May-2022	29-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	24-May-2022	30-May-2022	✓	25-May-2022	30-May-2022	✓
EP074H: Naphthalene								
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	24-May-2022	28-May-2022	✓	25-May-2022	28-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	24-May-2022	29-May-2022	✓	25-May-2022	29-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	24-May-2022	30-May-2022	✓	25-May-2022	30-May-2022	✓
EP074I: Volatile Halogenated Compounds								
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	24-May-2022	28-May-2022	✓	25-May-2022	28-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	24-May-2022	29-May-2022	✓	25-May-2022	29-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	24-May-2022	30-May-2022	✓	25-May-2022	30-May-2022	✓



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP075A: Phenolic Compounds (Halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	04-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	05-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	06-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
EP075A: Phenolic Compounds (Non-halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	04-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	05-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	06-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	04-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	05-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	06-Jun-2022	✓	26-May-2022	05-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	
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	04-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	05-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	06-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	24-May-2022	28-May-2022	✓	25-May-2022	28-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	04-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	24-May-2022	29-May-2022	✓	25-May-2022	29-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	05-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	24-May-2022	30-May-2022	✓	25-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	06-Jun-2022	✓	26-May-2022	05-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_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	24-May-2022	28-May-2022	✓	25-May-2022	28-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	04-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	24-May-2022	29-May-2022	✓	25-May-2022	29-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	05-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	24-May-2022	30-May-2022	✓	25-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	06-Jun-2022	✓	26-May-2022	05-Jul-2022	✓
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X)								
SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	18-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X)								
SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	19-Nov-2022	✓	26-May-2022	05-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	
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	18-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	19-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	18-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	19-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	18-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	19-Nov-2022	✓	26-May-2022	05-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	
EP231P: PFAS Sums								
HDPE Soil Jar (EP231X) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS,	SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS	22-May-2022	26-May-2022	18-Nov-2022	✓	26-May-2022	05-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220523_00_13_SS_Primary_ALS,	SX_OB_20220523_04_13_SS_Primary_ALS	23-May-2022	26-May-2022	19-Nov-2022	✓	26-May-2022	05-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	
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE (no PTFE) (EP231X) SX_OB_20220521_12_24_SR_Rinsate_ALS,	SX_OB_20220521_12_25_SB_Blank_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	27-May-2022	17-Nov-2022	✓
HDPE (no PTFE) (EP231X) SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS, SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS, SX_OB_20220523_00_13_SS_Primary_ALS, SX_IB_20220521_08_09_SS_PRIMARY_ALS - DI, SX_IB_20220521_11_55_SS_Primary_ALS - DI, SX_IB_20220521_16_08_SS_Triplicate_ALS - DI, SX_OB_20220521_20_07_SS_Primary_ALS - DI, SX_OB_20220522_00_08_SS_Primary_ALS - DI, SX_IB_20220522_07_47_SS_Primary_ALS - DI, SX_OB_20220522_11_56_SS_Primary_ALS - DI, SX_OB_20220522_15_47_SS_Duplicate_ALS - DI, SX_OB_20220523_00_13_SS_Primary_ALS - DI,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS, SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS, SX_OB_20220523_04_13_SS_Primary_ALS, SX_IB_20220521_08_10_SS_DUPLICATE_ALS - DI, SX_OB_20220521_16_01_SS_Primary_ALS - DI, SX_IB_20220521_16_16_SS_Primary_ALS - DI, SX_IB_20220521_20_16_SS_Triplicate_ALS - DI, SX_OB_20220522_04_10_SS_Primary_ALS - DI, SX_IB_20220522_08_14_SS_Triplicate_ALS - DI, SX_OB_20220522_15_46_SS_Primary_ALS - DI, SX_OB_20220522_20_08_SS_Primary_ALS - DI, SX_OB_20220523_04_13_SS_Primary_ALS - DI	27-May-2022	28-May-2022	23-Nov-2022	✓	28-May-2022	23-Nov-2022	✓



Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X)								
SX_OB_20220521_12_24_SR_Rinsate_ALS, SX_OB_20220521_12_24_SR_Rinsate_ALS - DI,	SX_OB_20220521_12_25_SB_Blank_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	27-May-2022	17-Nov-2022	✓
HDPE (no PTFE) (EP231X)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS, SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS, SX_OB_20220523_00_13_SS_Primary_ALS, SX_IB_20220521_08_09_SS_PRIMARY_ALS - DI, SX_IB_20220521_11_55_SS_Primary_ALS - DI, SX_IB_20220521_16_08_SS_Triplicate_ALS - DI, SX_OB_20220521_20_07_SS_Primary_ALS - DI, SX_OB_20220522_00_08_SS_Primary_ALS - DI, SX_IB_20220522_07_47_SS_Primary_ALS - DI, SX_OB_20220522_11_56_SS_Primary_ALS - DI, SX_OB_20220522_15_47_SS_Duplicate_ALS - DI, SX_OB_20220523_00_13_SS_Primary_ALS - DI,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS, SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS, SX_OB_20220523_04_13_SS_Primary_ALS, SX_IB_20220521_08_10_SS_DUPLICATE_ALS - DI, SX_OB_20220521_16_01_SS_Primary_ALS - DI, SX_IB_20220521_16_16_SS_Primary_ALS - DI, SX_IB_20220521_20_16_SS_Triplicate_ALS - DI, SX_OB_20220522_04_10_SS_Primary_ALS - DI, SX_IB_20220522_08_14_SS_Triplicate_ALS - DI, SX_OB_20220522_15_46_SS_Primary_ALS - DI, SX_OB_20220522_20_08_SS_Primary_ALS - DI, SX_OB_20220523_04_13_SS_Primary_ALS - DI,	27-May-2022	28-May-2022	23-Nov-2022	✓	28-May-2022	23-Nov-2022	✓



Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X)								
SX_OB_20220521_12_24_SR_Rinsate_ALS, SX_OB_20220521_12_24_SR_Rinsate_ALS - DI,	SX_OB_20220521_12_25_SB_Blank_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	27-May-2022	17-Nov-2022	✓
HDPE (no PTFE) (EP231X)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS, SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS, SX_OB_20220523_00_13_SS_Primary_ALS, SX_IB_20220521_08_09_SS_PRIMARY_ALS - DI, SX_IB_20220521_11_55_SS_Primary_ALS - DI, SX_IB_20220521_16_08_SS_Triplicate_ALS - DI, SX_OB_20220521_20_07_SS_Primary_ALS - DI, SX_OB_20220522_00_08_SS_Primary_ALS - DI, SX_IB_20220522_07_47_SS_Primary_ALS - DI, SX_OB_20220522_11_56_SS_Primary_ALS - DI, SX_OB_20220522_15_47_SS_Duplicate_ALS - DI, SX_OB_20220523_00_13_SS_Primary_ALS - DI,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS, SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS, SX_OB_20220523_04_13_SS_Primary_ALS, SX_IB_20220521_08_10_SS_DUPLICATE_ALS - DI, SX_OB_20220521_16_01_SS_Primary_ALS - DI, SX_IB_20220521_16_16_SS_Primary_ALS - DI, SX_IB_20220521_20_16_SS_Triplicate_ALS - DI, SX_OB_20220522_04_10_SS_Primary_ALS - DI, SX_IB_20220522_08_14_SS_Triplicate_ALS - DI, SX_OB_20220522_15_46_SS_Primary_ALS - DI, SX_OB_20220522_20_08_SS_Primary_ALS - DI, SX_OB_20220523_04_13_SS_Primary_ALS - DI,	27-May-2022	28-May-2022	23-Nov-2022	✓	28-May-2022	23-Nov-2022	✓



Matrix: **WATER** Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
SX_OB_20220521_12_24_SR_Rinsate_ALS,	SX_OB_20220521_12_25_SB_Blank_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	27-May-2022	17-Nov-2022	✓
HDPE (no PTFE) (EP231X)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS, SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS, SX_OB_20220523_00_13_SS_Primary_ALS, SX_IB_20220521_08_09_SS_PRIMARY_ALS - DI, SX_IB_20220521_11_55_SS_Primary_ALS - DI, SX_IB_20220521_16_08_SS_Triplicate_ALS - DI, SX_OB_20220521_20_07_SS_Primary_ALS - DI, SX_OB_20220522_00_08_SS_Primary_ALS - DI, SX_IB_20220522_07_47_SS_Primary_ALS - DI, SX_OB_20220522_11_56_SS_Primary_ALS - DI, SX_OB_20220522_15_47_SS_Duplicate_ALS - DI, SX_OB_20220523_00_13_SS_Primary_ALS - DI,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS, SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS, SX_OB_20220523_04_13_SS_Primary_ALS, SX_IB_20220521_08_10_SS_DUPLICATE_ALS - DI, SX_OB_20220521_16_01_SS_Primary_ALS - DI, SX_IB_20220521_16_16_SS_Primary_ALS - DI, SX_IB_20220521_20_16_SS_Triplicate_ALS - DI, SX_OB_20220522_04_10_SS_Primary_ALS - DI, SX_IB_20220522_08_14_SS_Triplicate_ALS - DI, SX_OB_20220522_15_46_SS_Primary_ALS - DI, SX_OB_20220522_20_08_SS_Primary_ALS - DI, SX_OB_20220523_04_13_SS_Primary_ALS - DI,	27-May-2022	28-May-2022	23-Nov-2022	✓	28-May-2022	23-Nov-2022	✓



Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X)								
SX_OB_20220521_12_24_SR_Rinsate_ALS,	SX_OB_20220521_12_25_SB_Blank_ALS	21-May-2022	26-May-2022	17-Nov-2022	✓	27-May-2022	17-Nov-2022	✓
HDPE (no PTFE) (EP231X)								
SX_IB_20220521_08_09_SS_PRIMARY_ALS, SX_IB_20220521_11_55_SS_Primary_ALS, SX_IB_20220521_16_08_SS_Triplicate_ALS, SX_OB_20220521_20_07_SS_Primary_ALS, SX_OB_20220522_00_08_SS_Primary_ALS, SX_IB_20220522_07_47_SS_Primary_ALS, SX_OB_20220522_11_56_SS_Primary_ALS, SX_OB_20220522_15_47_SS_Duplicate_ALS, SX_OB_20220523_00_13_SS_Primary_ALS, SX_IB_20220521_08_09_SS_PRIMARY_ALS - DI, SX_IB_20220521_11_55_SS_Primary_ALS - DI, SX_IB_20220521_16_08_SS_Triplicate_ALS - DI, SX_OB_20220521_20_07_SS_Primary_ALS - DI, SX_OB_20220522_00_08_SS_Primary_ALS - DI, SX_IB_20220522_07_47_SS_Primary_ALS - DI, SX_OB_20220522_11_56_SS_Primary_ALS - DI, SX_OB_20220522_15_47_SS_Duplicate_ALS - DI, SX_OB_20220523_00_13_SS_Primary_ALS - DI,	SX_IB_20220521_08_10_SS_DUPLICATE_ALS, SX_OB_20220521_16_01_SS_Primary_ALS, SX_IB_20220521_16_16_SS_Primary_ALS, SX_IB_20220521_20_16_SS_Triplicate_ALS, SX_OB_20220522_04_10_SS_Primary_ALS, SX_IB_20220522_08_14_SS_Triplicate_ALS, SX_OB_20220522_15_46_SS_Primary_ALS, SX_OB_20220522_20_08_SS_Primary_ALS, SX_OB_20220523_04_13_SS_Primary_ALS, SX_IB_20220521_08_10_SS_DUPLICATE_ALS - DI, SX_OB_20220521_16_01_SS_Primary_ALS - DI, SX_IB_20220521_16_16_SS_Primary_ALS - DI, SX_IB_20220521_20_16_SS_Triplicate_ALS - DI, SX_OB_20220522_04_10_SS_Primary_ALS - DI, SX_IB_20220522_08_14_SS_Triplicate_ALS - DI, SX_OB_20220522_15_46_SS_Primary_ALS - DI, SX_OB_20220522_20_08_SS_Primary_ALS - DI, SX_OB_20220523_04_13_SS_Primary_ALS - DI,	27-May-2022	28-May-2022	23-Nov-2022	✓	28-May-2022	23-Nov-2022	✓



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	6	59	10.17	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	18	11.11	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	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	6	59	10.17	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	18	5.56	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-DIa-P	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	18	5.56	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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reular	Actual	Expected	Evaluation	
Analytical Methods							
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	18	5.56	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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	6	77	7.79	10.00	*	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	77	5.19	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	77	5.19	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	77	3.90	5.00	*	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl ₂ extract	EA001	SOIL	In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Total Cyanide by Segmented Flow Analyser	EK026SF	SOIL	In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3).
Total Fluoride	EK040T	SOIL	(In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.
PCB - VIC EPA 448.3 Screen	EP066-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071-EM	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
Volatile Organic Compounds - Ultra-trace	EP074-UT	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).



Analytical Methods	Method	Matrix	Method Descriptions
Volatile Organic Compounds - Ultra-trace - Summations	EP074-UT-SUM	SOIL	Summation of MAHs and VHCs
Semivolatile Organic Compounds - Waste Classification	EP075-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
SVOC - Waste Classification (Sums)	EP075-EM-SUM	SOIL	Summations for EP075 (EM variation)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
NaOH leach for CN in Soils	CN-PR	SOIL	In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.
pH in soil using a 0.01M CaCl ₂ extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Total Fluoride	EK040T-PR	SOIL	In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils - Ultra-trace.	ORG16-UT	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids - VIC EPA Screen	ORG17-EM	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
QuEChERS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	SOIL	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY DOCUMENTATION

CLIENT: Agon Environmental
 ADDRESS / OFFICE: Melbourne
 PROJECT MANAGER (PH): Craig Trimbur
 PROJECT ID: JC0927

SAMPLER: Dayle B - EP Risk
 Brandon - Agon
 MOBILE 1: +61 400 826 907 (Craig Trimbur)
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Australian Laboratory Services Pty Ltd
 Labreports.TST@agonenviro.com.au
 agonenvironmental@esdal.com.au
 motherhublabresults1@wato.com.au

SITE: 20220524052315-ALS-14
 RESULTS REQUIRED (Date): 5 days

EMAIL REPORT TO: Labreports.TST@agonenviro.com.au
 EMAIL INVOICE TO: (if different to report) Labreports.TST@agonenviro.com.au
 ANALYSIS REQUIRED INCLUDING SUITES (note - suite codes must be listed to attract suite prices)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Notes:

ALS ID	SAMPLE INFORMATION (note: S = Soil, W = Water)				CONTAINER INFORMATION			Spot Sample Prep	PFS 28 Extended suite	ASLP PFS - Extended Suite (lab to determine pH)	DI Leachate PFS - Extended Suite	Notes
	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles						
13	SX_IB_20220523_07_58_SS_Primary_ALS	S	23/05/2022	07:58	BUCKET	1	X	X	X			
14	SX_IB_20220523_07_58_SS_Duplicate_ALS	S	23/05/2022	07:58	BUCKET	1	X	X	X			
15	SX_OB_20220523_08_09_SS_Primary_ALS	S	23/05/2022	08:09	BUCKET	1	X	X	X			
16	SX_OB_20220523_12_02_SS_Primary_ALS	S	23/05/2022	12:02	BOTTLE	1	X	X	X			
17	SX_IB_20220523_15_53_SS_Primary_ALS	S	23/05/2022	15:53	BOTTLE	1	X	X	X			
18	SX_OB_20220523_15_59_SS_Triplicate_ALS	S	23/05/2022	15:59	BUCKET	1	X	X	X			
19	SX_OB_20220523_16_03_SS_Primary_ALS	S	23/05/2022	16:03	BUCKET	1	X	X	X			
20	SX_OB_20220523_20_10_SS_Triplicate_ALS	S	23/05/2022	20:10	BUCKET	1	X	X	X			
21	SX_OB_20220524_00_15_SS_Primary_ALS	S	23/05/2022	20:15	BUCKET	1	X	X	X			
22	SX_IB_20220524_00_07_SS_Primary_ALS	S	24/05/2022	00:07	BUCKET	1	X	X	X			
23	SX_OB_20220524_00_15_SS_Primary_ALS	S	24/05/2022	00:15	BUCKET	1	X	X	X			
24	SX_OB_20220524_04_12_SS_Primary_ALS	S	24/05/2022	04:12	BUCKET	1	X	X	X			

RECEIVED BY: _____

RELINQUISHED BY: _____

NAME: _____ DATE: _____

OF: _____ TIME: _____

NAME: _____ DATE: _____

OF: _____ TIME: _____

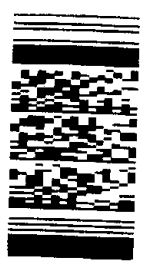
METHOD OF SHIPMENT: _____

CONTAINER No: _____

TRANSPORT CO: _____

RECEIVED: 24/5, 10:17 Carrier: COURTESY
 C/NOTE: _____
 TEMP: 12.8°C Seal: Y
 ICE / ICEPACKS / N/A TR

Environmental Division
 Melbourne
 Work Order Reference
EM2209548



Telephone: +61-3-8549 9600

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; SG = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Staple Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

CERTIFICATE OF ANALYSIS

Work Order : **EM2209548**
Client : **AGON ENVIRONMENTAL PTY LTD**
Contact : **DAVID LAWSON**
Address : **D1.1 63-85 TURNER STREET**
PORT MELBOURNE 3207

Telephone : ----
Project : **JC0927**
Order number : ----
C-O-C number : **20220524052315-ALS-14**
Sampler : **Dayle B - EP Risk Brandon - Agon**
Site : **20220524052315-ALS-14**
Quote number : **EN/150/19 -WGTP -Bulk Sample Quote**
No. of samples received : **24**
No. of samples analysed : **24**

Page : 1 of 38
Laboratory : Environmental Division Melbourne
Contact : Josh Alexander
Address : 4 Westall Rd Springvale VIC Australia 3171

Telephone : +61-3-8549 9600
Date Samples Received : 24-May-2022 10:17
Date Analysis Commenced : 25-May-2022
Issue Date : 31-May-2022 16:09



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic 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.

- 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.
- EG005-T : EM2209261 #3 Poor duplicate precision for total Nickel due to sample matrix. Confirmed by re-digestion and re-analysis
- EG005-T : EM2209548 #6 Poor spike recovery for Arsenic and Chromium due to sample matrix. Confirmed by re-digestion and re-analysis.
- EP231X: Poor matrix spike recovery for sample EM2209548-014 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.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-001	EM2209548-002	EM2209548-003	EM2209548-004	EM2209548-005
				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)

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-001	EM2209548-002	EM2209548-003	EM2209548-004	EM2209548-005
				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	%	88.2	101	98.7	96.7	91.5
13C8-PFOA	----	0.02	%	98.2	99.6	99.4	96.8	88.8



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-006	EM2209548-007	EM2209548-008	EM2209548-009	EM2209548-010
				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)

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-006	EM2209548-007	EM2209548-008	EM2209548-009	EM2209548-010
				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	%	109	90.9	93.6	93.9	91.0
13C8-PFOA	----	0.02	%	90.5	98.4	102	91.6	97.5



Analytical Results

Sub-Matrix: ASLP LEACHATE (Matrix: WATER)		Sample ID		SX_OB_20220524_00 _15_SS_Primary_ALS	SX_OB_20220524_04 _12_SS_Primary_ALS	----	----	----
		Sampling date / time		24-May-2022 00:15	24-May-2022 04:12	----	----	----
Compound	CAS Number	LOR	Unit	EM2209548-011	EM2209548-012	-----	-----	-----
				Result	Result	---	---	---
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220524_00 _15_SS_Primary_ALS	SX_OB_20220524_04 _12_SS_Primary_ALS	----	----	----
Sampling date / time				24-May-2022 00:15	24-May-2022 04:12	----	----	----
Compound	CAS Number	LOR	Unit	EM2209548-011	EM2209548-012	-----	-----	-----
				Result	Result	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	----	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	95.1	97.5	----	----	----
13C8-PFOA	----	0.02	%	102	105	----	----	----



Analytical Results

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

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-013	EM2209548-014	EM2209548-015	EM2209548-016	EM2209548-017
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

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

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-013	EM2209548-014	EM2209548-015	EM2209548-016	EM2209548-017
				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	%	90.0	89.9	92.8	101	89.6
13C8-PFOA	----	0.02	%	98.2	98.1	93.8	97.7	94.3



Analytical Results

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

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-018	EM2209548-019	EM2209548-020	EM2209548-021	EM2209548-022
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

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

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-018	EM2209548-019	EM2209548-020	EM2209548-021	EM2209548-022
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	97.9	106	100	88.9	87.2
13C8-PFOA	----	0.02	%	96.8	98.1	99.3	95.0	98.6



Analytical Results

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

Sample ID

				SX_OB_20220524_00 _15_SS_Primary_ALS	SX_OB_20220524_04 _12_SS_Primary_ALS	----	----	----
				24-May-2022 00:15	24-May-2022 04:12	----	----	----
Compound	CAS Number	LOR	Unit	EM2209548-023	EM2209548-024	-----	-----	-----
				Result	Result	---	---	---
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----



Analytical Results

Sub-Matrix: DI WATER LEACHATE (Matrix: WATER)				Sample ID	SX_OB_20220524_00 _15_SS_Primary_ALS	SX_OB_20220524_04 _12_SS_Primary_ALS	----	----	----
Sampling date / time				24-May-2022 00:15	24-May-2022 04:12	----	----	----	
Compound	CAS Number	LOR	Unit	EM2209548-023	EM2209548-024	-----	-----	-----	
				Result	Result	---	---	---	
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<0.05	<0.05	----	----	----	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231P: PFAS Sums									
Sum of PFAS	----	0.10	µg/L	<0.10	<0.10	----	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	----	----	----	
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	----	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	97.2	99.6	----	----	----	
13C8-PFOA	----	0.02	%	97.5	94.4	----	----	----	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-001	EM2209548-002	EM2209548-003	EM2209548-004	EM2209548-005
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl ₂)	----	0.1	pH Unit	7.8	7.8	7.7	7.7	7.8
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	30.0	30.1	33.9	33.5	29.6
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	17	21	73	37	22
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	115	124	102	100	101
Copper	7440-50-8	5	mg/kg	61	65	51	55	59
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	180	177	116	127	160
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	97	102	78	88	100
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	240	230	140	140	200
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	8.6	8.2	9.3	8.4	8.9
After HCl pH	----	0.1	pH Unit	1.6	1.5	1.5	1.4	1.5
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.1	5.1	5.1	5.2	5.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-001	EM2209548-002	EM2209548-003	EM2209548-004	EM2209548-005
				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)

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-001	EM2209548-002	EM2209548-003	EM2209548-004	EM2209548-005
				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)

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-001	EM2209548-002	EM2209548-003	EM2209548-004	EM2209548-005
				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)

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-001	EM2209548-002	EM2209548-003	EM2209548-004	EM2209548-005
				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	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-001	EM2209548-002	EM2209548-003	EM2209548-004	EM2209548-005
				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)

Sample ID

				SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS
Sampling date / time				23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	23-May-2022 12:02	23-May-2022 15:53
Compound	CAS Number	LOR	Unit	EM2209548-001	EM2209548-002	EM2209548-003	EM2209548-004	EM2209548-005
				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	%	105	106	100	97.8	101
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	80.4	91.5	84.2	85.9	90.8
Toluene-D8	2037-26-5	0.1	%	69.8	79.1	77.0	76.6	81.3
4-Bromofluorobenzene	460-00-4	0.1	%	89.9	99.3	92.2	93.4	99.0
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	104	106	107	106	104
2-Chlorophenol-D4	93951-73-6	0.025	%	102	99.1	99.9	99.2	102
2,4,6-Tribromophenol	118-79-6	0.025	%	100	104	102	101	107
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	104	103	103	102	104
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	96.8	93.8	96.0	95.0	99.1
2-Fluorobiphenyl	321-60-8	0.025	%	107	107	105	105	109
Anthracene-d10	1719-06-8	0.025	%	107	108	107	107	110
4-Terphenyl-d14	1718-51-0	0.025	%	96.6	98.0	96.0	96.1	97.5
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	87.8	100	95.2	88.2	103
13C8-PFOA	----	0.0002	%	105	98.8	100	102	107



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-006	EM2209548-007	EM2209548-008	EM2209548-009	EM2209548-010
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	7.7	7.8	7.7	7.8	7.9
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	35.2	33.8	34.2	34.9	32.3
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	91	54	55	47	20
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	119	98	105	109	92
Copper	7440-50-8	5	mg/kg	81	57	67	60	56
Lead	7439-92-1	5	mg/kg	6	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	148	134	157	142	157
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	99	93	104	104	92
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	180	140	160	170	<100
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.2	8.6	8.6	8.5	9.4
After HCl pH	----	0.1	pH Unit	1.4	1.4	1.4	1.4	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)

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-006	EM2209548-007	EM2209548-008	EM2209548-009	EM2209548-010
				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)

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-006	EM2209548-007	EM2209548-008	EM2209548-009	EM2209548-010
				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)

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-006	EM2209548-007	EM2209548-008	EM2209548-009	EM2209548-010
				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)

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-006	EM2209548-007	EM2209548-008	EM2209548-009	EM2209548-010
				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	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-006	EM2209548-007	EM2209548-008	EM2209548-009	EM2209548-010
				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)

Sample ID

				SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS
Sampling date / time				23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10	23-May-2022 20:15	24-May-2022 00:07
Compound	CAS Number	LOR	Unit	EM2209548-006	EM2209548-007	EM2209548-008	EM2209548-009	EM2209548-010
				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	%	98.5	97.9	92.0	96.7	96.8
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	85.3	79.3	86.0	85.9	86.3
Toluene-D8	2037-26-5	0.1	%	75.4	76.3	74.7	82.2	74.8
4-Bromofluorobenzene	460-00-4	0.1	%	91.2	86.0	92.4	95.4	92.7
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	115	105	103	104	108
2-Chlorophenol-D4	93951-73-6	0.025	%	103	99.5	96.8	95.1	101
2,4,6-Tribromophenol	118-79-6	0.025	%	106	100	97.3	99.0	103
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	104	103	100.0	98.5	103
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	95.9	96.3	94.2	88.1	95.4
2-Fluorobiphenyl	321-60-8	0.025	%	109	106	103	102	107
Anthracene-d10	1719-06-8	0.025	%	110	106	104	107	107
4-Terphenyl-d14	1718-51-0	0.025	%	98.2	95.9	93.8	96.2	97.2
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	95.1	87.9	96.6	96.6	107
13C8-PFOA	----	0.0002	%	104	100	108	106	107



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)		Sample ID		SX_OB_20220524_00_15_SS_Primary_ALS	SX_OB_20220524_04_12_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS	
Sampling date / time		24-May-2022 00:15		24-May-2022 04:12		23-May-2022 07:58		23-May-2022 08:09	
Compound	CAS Number	LOR	Unit	EM2209548-011	EM2209548-012	EM2209548-013	EM2209548-014	EM2209548-015	
				Result	Result	Result	Result	Result	
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl ₂)	----	0.1	pH Unit	7.8	7.8	----	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	34.5	32.8	----	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	88	48	----	----	----	
Cadmium	7440-43-9	1	mg/kg	<1	<1	----	----	----	
Chromium	7440-47-3	5	mg/kg	138	112	----	----	----	
Copper	7440-50-8	5	mg/kg	70	68	----	----	----	
Lead	7439-92-1	5	mg/kg	<5	<5	----	----	----	
Molybdenum	7439-98-7	5	mg/kg	<5	<5	----	----	----	
Nickel	7440-02-0	5	mg/kg	160	153	----	----	----	
Selenium	7782-49-2	5	mg/kg	<5	<5	----	----	----	
Silver	7440-22-4	2	mg/kg	<2	<2	----	----	----	
Tin	7440-31-5	10	mg/kg	<10	<10	----	----	----	
Zinc	7440-66-6	5	mg/kg	106	110	----	----	----	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	----	----	----	
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	----	----	----	
EK026SF: Total CN by Segmented Flow Analyser									
Total Cyanide	57-12-5	5	mg/kg	<5	<5	----	----	----	
EK040T: Fluoride Total									
Fluoride	16984-48-8	100	mg/kg	210	160	----	----	----	
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit	8.7	8.8	----	----	----	
After HCl pH	----	0.1	pH Unit	1.3	1.4	----	----	----	
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	----	----	----	
Final pH	----	0.1	pH Unit	5.1	5.1	----	----	----	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit	----	----	9.7	9.7	9.1	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	----	----	----	
EP074A: Monocyclic Aromatic Hydrocarbons									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220524_00_15_SS_Primary_ALS	SX_OB_20220524_04_12_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS
Sampling date / time				24-May-2022 00:15	24-May-2022 04:12	23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	
Compound	CAS Number	LOR	Unit	EM2209548-011	EM2209548-012	EM2209548-013	EM2209548-014	EM2209548-015	
				Result	Result	Result	Result	Result	
EP074A: Monocyclic Aromatic Hydrocarbons - Continued									
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	----	----	----	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	----	----	----	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	----	----	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	----	----	----	
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	----	----	----	
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	----	----	----	
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	----	----	----	
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	----	----	----	
EP074H: Naphthalene									
Naphthalene	91-20-3	1	mg/kg	<1	<1	----	----	----	
EP074I: Volatile Halogenated Compounds									
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	----	----	----	
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	----	----	----	
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	----	----	----	
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	----	----	----	
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	----	----	----	
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	----	----	----	
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	----	----	----	
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	----	----	----	
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	----	----	----	
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	----	----	----	
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	----	----	----	
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	----	----	----	
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	----	----	----	
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	----	----	----	
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	----	----	----	
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	----	----	----	
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	----	----	----	
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	----	----	----	
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	----	----	----	
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	----	----	----	
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	----	----	----	
EP075A: Phenolic Compounds (Halogenated)									



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220524_00_15_SS_Primary_ALS	SX_OB_20220524_04_12_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS
Sampling date / time				24-May-2022 00:15	24-May-2022 04:12	23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09
Compound	CAS Number	LOR	Unit	EM2209548-011	EM2209548-012	EM2209548-013	EM2209548-014	EM2209548-015
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	----	----	----
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	----	----	----
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	----	----	----
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	----	----	----
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	----	----	----
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	----	----	----
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<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	----	----	----
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	----	----	----
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	----	----	----
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	----	----	----
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	----	----	----
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	----	----	----
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	----	----	----
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	----	----	----
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	----	----	----
Dinoseb	88-85-7	20	mg/kg	<20	<20	----	----	----
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	----	----	----
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220524_00_15_SS_Primary_ALS	SX_OB_20220524_04_12_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS
Sampling date / time				24-May-2022 00:15	24-May-2022 04:12	23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09
Compound	CAS Number	LOR	Unit	EM2209548-011	EM2209548-012	EM2209548-013	EM2209548-014	EM2209548-015
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	----	----	----
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	----	----	----
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	----	----	----
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	----	----	----
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	----	----	----
4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	----	----	----
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID				
				SX_OB_20220524_00_15_SS_Primary_ALS	SX_OB_20220524_04_12_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS
Sampling date / time				24-May-2022 00:15	24-May-2022 04:12	23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09
Compound	CAS Number	LOR	Unit	EM2209548-011	EM2209548-012	EM2209548-013	EM2209548-014	EM2209548-015
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	----	----	----
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	----	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	<50	----	----	----
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	----	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	<100	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	----	----	----
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	----	----	----
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220524_00_15_SS_Primary_ALS	SX_OB_20220524_04_12_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS
Sampling date / time					24-May-2022 00:15	24-May-2022 04:12	23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09
Compound	CAS Number	LOR	Unit	EM2209548-011	EM2209548-012	EM2209548-013	EM2209548-014	EM2209548-015	
				Result	Result	Result	Result	Result	
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	----	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	----	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	----	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	----	----	----	
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	----	----	----	
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	----	----	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	----	----	----	
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	----	----	----	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	----	----	----	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	----	----	----	
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	----	----	----	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	----	----	----	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	----	----	----	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	----	----	----	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	----	----	----	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	----	----	----	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	----	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	----	----	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220524_00_15_SS_Primary_ALS	SX_OB_20220524_04_12_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS	SX_OB_20220523_08_09_SS_Primary_ALS
Sampling date / time				24-May-2022 00:15	24-May-2022 04:12	23-May-2022 07:58	23-May-2022 07:58	23-May-2022 08:09	
Compound	CAS Number	LOR	Unit	EM2209548-011	EM2209548-012	EM2209548-013	EM2209548-014	EM2209548-015	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	----	----	----	
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	----	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	----	----	----	
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	----	----	----	
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%	87.7	84.9	----	----	----	
EP074S: VOC Surrogates (Ultra-Trace)									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	87.6	88.8	----	----	----	
Toluene-D8	2037-26-5	0.1	%	75.5	82.7	----	----	----	
4-Bromofluorobenzene	460-00-4	0.1	%	95.0	97.7	----	----	----	
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%	108	99.2	----	----	----	
2-Chlorophenol-D4	93951-73-6	0.025	%	101	92.5	----	----	----	
2,4,6-Tribromophenol	118-79-6	0.025	%	101	93.0	----	----	----	
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%	103	95.1	----	----	----	
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	95.9	88.9	----	----	----	
2-Fluorobiphenyl	321-60-8	0.025	%	106	99.2	----	----	----	
Anthracene-d10	1719-06-8	0.025	%	108	101	----	----	----	
4-Terphenyl-d14	1718-51-0	0.025	%	96.4	90.4	----	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	100	95.6	----	----	----	
13C8-PFOA	----	0.0002	%	102	103	----	----	----	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220523_12_02_SS_PRIMARY_ALS	SX_IB_20220523_15_53_SS_Primary_ALS	SX_OB_20220523_15_59_SS_Triplicate_ALS	SX_OB_20220523_16_03_SS_Primary_ALS	SX_OB_20220523_20_10_SS_Triplicate_ALS
Sampling date / time				23-May-2022 12:02	23-May-2022 15:53	23-May-2022 15:59	23-May-2022 16:03	23-May-2022 20:10
Compound	CAS Number	LOR	Unit	EM2209548-016	EM2209548-017	EM2209548-018	EM2209548-019	EM2209548-020
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.1	9.7	9.2	9.1	9.3



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220524_00_07_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS	SX_OB_20220524_04_12_SS_Primary_ALS	----
Sampling date / time			23-May-2022 20:15	24-May-2022 00:07	24-May-2022 00:15	24-May-2022 04:12	----	----
Compound	CAS Number	LOR	Unit	EM2209548-021	EM2209548-022	EM2209548-023	EM2209548-024	-----
				Result	Result	Result	Result	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.4	9.9	9.7	9.5	----



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

QUALITY CONTROL REPORT

Work Order	: EM2209548	Page	: 1 of 30
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Contact	: Josh Alexander
Address	: D1.1 63-85 TURNER STREET PORT MELBOURNE 3207	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61-3-8549 9600
Project	: JC0927	Date Samples Received	: 24-May-2022
Order number	: ----	Date Analysis Commenced	: 25-May-2022
C-O-C number	: 20220524052315-ALS-14	Issue Date	: 31-May-2022
Sampler	: Dayle B - EP Risk Brandon - Agon		
Site	: 20220524052315-ALS-14		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 24		
No. of samples analysed	: 24		



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic 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: 4363966)									
EM2209261-003	Anonymous	EG005T: Nickel	7440-02-0	2	mg/kg	30	# 41	32.9	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	41	54	26.7	0% - 50%
EM2209261-003	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	28	21	29.6	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	33	20	50.5	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	22	13	50.7	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<5	<5	0.0	No Limit
EM2209534-002	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	12	11	0.0	No Limit
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	4	4	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	10	8	16.6	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	27	50	60.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<5	<5	0.0	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4363969)									
		EG005T: Zinc	7440-66-6	5	mg/kg	22	32	39.0	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 (%)
EG005(ED093): Total Metals by ICP-AES (QC Lot: 4363969) - continued									
EM2209548-005	SX_IB_20220523_15_53_S S_Primary_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	101	102	0.0	0% - 20%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	160	149	6.5	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	22	21	8.1	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	59	56	5.7	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	100	91	9.2	0% - 50%		
EM2209716-004	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	13	13	0.0	No Limit
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	10	10	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	29	32	7.4	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	15	8	56.1	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<5	<5	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	42	43	2.9	No Limit		
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4366382)									
EM2209531-004	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.7	7.6	0.0	0% - 20%
EM2209548-007	SX_OB_20220523_16_03_ SS_Primary_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.8	7.8	0.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4364457)									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	EA055: Moisture Content	----	0.1	%	30.0	29.6	1.5	0% - 20%
EM2209548-011	SX_OB_20220524_00_15_ SS_Primary_ALS	EA055: Moisture Content	----	0.1	%	34.5	34.7	0.6	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4363967)									
EM2209261-003	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2209534-002	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4363968)									
EM2209548-005	SX_IB_20220523_15_53_S S_Primary_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2209716-004	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4364010)									



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)	
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4364010) - continued										
EM2209534-010	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
EM2209548-009	SX_OB_20220523_20_15_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: 4365182)										
EM2209320-010	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	2	2	0.0	No Limit	
EM2209548-002	SX_IB_20220523_07_58_S_S_Duplicate_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit	
EK040T: Fluoride Total (QC Lot: 4364022)										
EM2209261-003	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	420	570	30.4	0% - 50%	
EM2209367-080	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	240	220	11.7	No Limit	
EK040T: Fluoride Total (QC Lot: 4364023)										
EM2209548-004	SX_OB_20220523_12_02_SS_PRIMARY_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	140	150	0.0	No Limit	
EM2209580-001	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	80	50	49.3	No Limit	
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4363844)										
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit	
EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit	
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4357424)										
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit	
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
		EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
			106-42-3							
			100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
EM2209548-011	SX_OB_20220524_00_15_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	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
			106-42-3							
			100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit	
EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	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: 4357424)										
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit	



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074H: Naphthalene (QC Lot: 4357424) - continued									
EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4357424)									
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50
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
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		



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: 4357424) - continued									
EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	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: 4363846)									
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit		
EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit		
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4363846)									
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit		



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4363846) - continued									
EM2209548-011	SX_OB_20220524_00_15_ SS_Primary_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit		
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4363846)									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1,2,3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit
EM2209548-011	SX_OB_20220524_00_15_ SS_Primary_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit



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: 4363846) - continued									
EM2209548-011	SX_OB_20220524_00_15_ SS_Primary_ALS	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: 4363846)									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EM2209548-011	SX_OB_20220524_00_15_ SS_Primary_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	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 (%)
EP075J: Organochlorine Pesticides (QC Lot: 4363846) - continued									
EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	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: 4357424)									
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4363845)									
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4357424)									
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EM2209548-011	SX_OB_20220524_00_15_SS_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4363845)									
EM2209548-001	SX_IB_20220523_07_58_S_S_Primary_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4363845) - continued									
EM2209548-011	SX_OB_20220524_00_15_ SS_Primary_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4363385)									
EM2209306-004	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2209548-007	SX_OB_20220523_16_03_ 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
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4363385)									
EM2209306-004	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
		EM2209548-007	SX_OB_20220523_16_03_ SS_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4			0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9			0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1			0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluorononanoic acid (PFNA)	375-95-1			0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2			0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8			0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1			0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4363385) - continued									
EM2209548-007	SX_OB_20220523_16_03_ SS_Primary_ALS	EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4363385)									
EM2209306-004	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2209548-007	SX_OB_20220523_16_03_ 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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4363385)									
EM2209306-004	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit



Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4363385) - continued									
EM2209548-007	SX_OB_20220523_16_03_S 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
EP231P: PFAS Sums (QC Lot: 4363385)									
EM2209306-004	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2209548-007	SX_OB_20220523_16_03_S 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

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: 4368586)									
EM2209548-013	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		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
EM2209548-022	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4368596)									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4368596) - continued									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2209548-010	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4368586)									
EM2209548-013	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EM2209548-022	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4368596)									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit



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: 4368596) - continued									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	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
EM2209548-010	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4368586)									
EM2209548-013	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2209548-022	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit



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: 4368586) - continued									
EM2209548-022	SX_IB_20220524_00_07_S S_Primary_ALS	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: 4368596)									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2209548-010	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4368586)									



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: 4368586) - continued									
EM2209548-013	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2209548-022	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4368596)									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2209548-010	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4368586)									
EM2209548-013	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EM2209548-022	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231P: PFAS Sums (QC Lot: 4368586) - continued									
EM2209548-022	SX_IB_20220524_00_07_S S_Primary_ALS	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: 4368596)									
EM2209548-001	SX_IB_20220523_07_58_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EM2209548-010	SX_IB_20220524_00_07_S S_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.05	<0.05	0.0	No Limit



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4363966)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	94.1	70.0	130	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	59.7	50.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	92.7	70.0	130	
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	91.0	70.0	130	
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	86.1	70.0	130	
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	85.6	70.0	130	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	88.4	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	82.7	70.0	130	
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	76.6	70.0	130	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	78.9	70.0	130	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4363969)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	94.6	70.0	130	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	58.2	50.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	94.3	70.0	130	
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	91.7	70.0	130	
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	86.7	70.0	130	
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	86.5	70.0	130	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	89.4	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	84.2	70.0	130	
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	89.1	70.0	130	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	79.8	70.0	130	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4364905)									
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.1	----	----	----	----	
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4366382)									
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: 4363967)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	94.5	70.0	130	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4363968)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	95.3	70.0	130	
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4364010)									
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	88.1	70.0	130	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4365182)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	84.2	70.0	130
EK040T: Fluoride Total (QCLot: 4364022)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	102	75.2	110
EK040T: Fluoride Total (QCLot: 4364023)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	75.3	75.2	110
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4363844)								
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	105	67.4	136
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4357424)								
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	85.3	69.2	116
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	88.1	67.7	116
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	82.3	66.6	115
EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4.2 mg/kg	83.1	65.2	112
	106-42-3							
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	86.7	69.4	111
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	85.5	68.4	110
EP074H: Naphthalene (QCLot: 4357424)								
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	88.0	72.3	114
EP074I: Volatile Halogenated Compounds (QCLot: 4357424)								
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	85.2	47.0	138
EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	81.0	57.6	125
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	94.6	72.3	115
EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	83.3	60.5	122
EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	87.2	70.3	112
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	88.6	66.6	115
EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	75.7	64.4	122
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	70.4	58.4	127
EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	106	72.9	114
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	81.2	64.7	115
EP074-UT: 1,1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	98.2	72.6	116
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	80.0	60.0	119
EP074-UT: 1,1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	90.8	71.8	116
EP074-UT: 1,1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	93.6	66.1	116
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	74.7	39.8	128
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	87.6	70.3	113
EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	86.0	62.6	113
EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	92.0	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: 4363846)								



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4363846) - continued									
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	99.2	74.5	126	
EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	97.1	72.7	126	
EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	99.5	73.5	132	
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	98.1	72.8	128	
EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	97.6	73.3	134	
EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	96.6	72.4	128	
EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	94.8	69.4	126	
EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/5 8-90-2	0.05	mg/kg	<0.05	4 mg/kg	97.5	71.9	128	
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	91.3	54.4	135	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4363846)									
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	109	71.5	130	
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	98.9	73.4	129	
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	96.5	74.3	129	
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	98.4	70.9	133	
EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	97.3	71.8	132	
EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	138	41.0	156	
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	116	65.3	134	
EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	93.0	43.6	128	
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	93.9	62.0	128	
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	82.7	34.5	137	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4363846)									
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	99.0	73.0	131	
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	98.4	76.3	130	
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	97.4	72.0	135	
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	100	74.4	131	
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	99.8	73.3	130	
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	99.6	78.4	127	
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	97.2	75.3	132	
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	98.5	75.4	130	
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	102	69.6	133	
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	102	75.0	133	
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	4 mg/kg	104	75.8	133	
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	102	65.1	130	
EP075-EM: Indeno(1,2,3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	103	72.1	134	
EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	103	72.9	135	
EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	102	71.3	134	
EP075I: Organochlorine Pesticides (QCLot: 4363846)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075I: Organochlorine Pesticides (QCLot: 4363846) - continued									
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	98.4	71.0	129	
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	98.2	74.8	126	
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	98.0	75.7	130	
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	98.9	70.8	130	
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	100	76.5	134	
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	97.8	75.5	131	
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	98.5	76.8	130	
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	97.6	73.6	130	
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	95.8	75.0	133	
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	96.0	75.3	131	
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	102	69.4	134	
EP075-EM: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	96.9	71.0	132	
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	98.8	78.0	133	
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	87.9	69.0	143	
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	108	55.7	145	
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	98.9	71.4	135	
EP075-EM: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	98.8	74.8	134	
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	100.0	70.2	135	
EP075-EM: 4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	98.3	77.7	133	
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	102	63.6	135	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4357424)									
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	71.8	61.1	119	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4363845)									
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	670 mg/kg	101	74.4	129	
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	2860 mg/kg	103	81.0	123	
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1490 mg/kg	93.8	81.8	121	
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	100	70.0	130	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4357424)									
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	71.5	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: 4363845)									
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1000 mg/kg	105	75.4	132	
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	3770 mg/kg	102	80.8	120	
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	250 mg/kg	99.3	73.3	136	
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5020 mg/kg	103	70.0	130	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4363385)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	105	72.0	128	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4363385) - continued									
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	92.4	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	73.2	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	98.9	70.0	132	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	86.5	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	80.7	59.0	134	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4363385)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	92.1	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.8	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.4	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	103	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.9	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	126	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.6	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.7	64.0	136	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.0	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	77.1	66.0	139	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	110	69.0	133	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4363385)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	113	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	87.0	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	73.3	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	106	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.8	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	119	61.0	139	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4363385)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	95.2	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	104	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	109	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	118	70.0	130	
EP231P: PFAS Sums (QCLot: 4363385)									
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			
Method: Compound	CAS Number	LOR	Unit		Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4368586)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	108	72.0 130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	99.4	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	93.1	69.0 134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	110	65.0 140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	99.5	53.0 142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4368596)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	105	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	102	68.0 131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	101	69.0 134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	95.8	65.0 140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.9	53.0 142	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4368586)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	99.9	73.0 129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	107	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	108	72.0 130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	100	71.0 133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	105	69.0 130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	103	71.0 129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	90.9	69.0 133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	100	72.0 134	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	99.2	65.0 144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	104	71.0 132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4368596)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	99.7	73.0 129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	106	72.0 129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	98.7	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	101	71.0 133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	102	69.0 130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	109	71.0 129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	93.2	69.0 133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	102	72.0 134	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	98.2	65.0 144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	113	71.0 132	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4368586)								



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4368586) - continued									
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	110	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	97.4	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	107	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	98.8	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	118	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4368596)									
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	135	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	110	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	88.6	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	121	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	100	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	114	61.0	135	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4368586)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	108	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	113	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	98.5	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4368596)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	101	63.0	143	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	124	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	127	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	106	70.0	130	
EP231P: PFAS Sums (QCLot: 4368586)									
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: 4368596)									



Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP231P: PFAS Sums (QCLot: 4368596) - 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	----	----	----	----

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report			
				Spike Concentration	Spike Recovery(%) MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4363966)							
EM2209261-004	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	101	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	92.0	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	88.4	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	97.3	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	91.8	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	88.3	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	94.2	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4363969)							
EM2209548-006	SX_OB_20220523_15_59_SS_Triplicate_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	# 30.5	78.0	124
		EG005T: Chromium	7440-47-3	50 mg/kg	# 71.6	79.0	121
EM2209548-006	SX_OB_20220523_15_59_SS_Triplicate_ALS	EG005T: Cadmium	7440-43-9	50 mg/kg	89.5	79.7	116
		EG005T: Copper	7440-50-8	250 mg/kg	96.8	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	89.8	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	90.6	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	96.1	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4363967)							
EM2209261-004	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	106	76.0	116
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4363968)							
EM2209548-006	SX_OB_20220523_15_59_SS_Triplicate_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	110	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4364010)							
EM2209548-001	SX_IB_20220523_07_58_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	79.5	58.0	114
EM2209548-001	SX_IB_20220523_07_58_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	101	58.0	114
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4365182)							
EM2209320-022	Anonymous	EK026SF: Total Cyanide	57-12-5	20 mg/kg	94.5	70.0	130



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
Laboratory sample ID		Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery(%) MS	Acceptable Limits (%) Low High
EK040T: Fluoride Total (QCLot: 4364022)							
EM2209261-004	Anonymous	EK040T: Fluoride	16984-48-8	400 mg/kg	72.5	70.0	130
EK040T: Fluoride Total (QCLot: 4364023)							
EM2209548-005	SX_IB_20220523_15_53_SS_Primary_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	78.0	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4363844)							
EM2209548-003	SX_OB_20220523_08_09_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	98.6	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4357424)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	93.7	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	98.1	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4357424)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	2 mg/kg	88.6	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	83.3	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	87.2	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4363846)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	108	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	108	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	94.6	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4363846)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP075-EM: Phenol	108-95-2	3 mg/kg	111	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	111	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4363846)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	102	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	98.4	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4357424)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	79.7	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4363845)							
EM2209548-004	SX_OB_20220523_12_02_SS_PRIMARY_ALS	EP071-EM: C10 - C14 Fraction	----	670 mg/kg	99.6	71.3	126
		EP071-EM: C15 - C28 Fraction	----	2860 mg/kg	101	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1490 mg/kg	92.2	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5020 mg/kg	98.4	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4357424)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	79.0	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4363845)							
EM2209548-004	SX_OB_20220523_12_02_SS_PRIMARY_ALS	EP071-EM: >C10 - C16 Fraction	----	1000 mg/kg	103	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	3770 mg/kg	100	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	250 mg/kg	98.6	65.3	139



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4363845) - continued							
EM2209548-004	SX_OB_20220523_12_02_SS_PRIMARY_ALS	EP071-EM: >C10 - C40 Fraction (sum)	----	5020 mg/kg	101	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4363385)							
EM2209306-005	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	110	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	76.4	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	76.9	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	100	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	87.4	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	79.8	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4363385)							
EM2209306-005	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.7	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	91.1	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	94.3	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	92.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	92.1	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	127	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	85.0	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	81.4	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	93.6	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.00125 mg/kg	82.6	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	115	69.0	133
		EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4363385)					
EM2209306-005	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	90.4	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	107	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	88.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	73.9	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	102	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	98.9	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	97.5	61.0	139
		EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4363385)					
EM2209306-005	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	101	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	103	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	104	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	107	70.0	130



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4368586)							
EM2209548-014	SX_IB_20220523_07_58_SS_Duplicate_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	79.5	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	97.0	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHps)	375-92-8	0.238 µg/L	92.8	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	106	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	62.2	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4368596)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	111	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	84.4	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	95.3	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	101	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	110	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4368586)							
EM2209548-014	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	86.5	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	99.5	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	107	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	102	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	94.7	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	94.0	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	77.1	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	# 53.2	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.25 µg/L	# Not Determined	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	# Not Determined	71.0	132		
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4368596)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	95.3	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	106	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	108	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	109	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	99.0	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	101	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	108	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	102	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	98.6	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.25 µg/L	95.1	65.0	144



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4368596) - continued							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	109	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4368586)							
EM2209548-014	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	93.0	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	81.3	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	# 64.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	# 67.0	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	73.5	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	# 54.9	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	# 59.8	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4368596)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	109	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	109	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	98.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	97.0	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	98.3	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	96.7	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	114	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4368586)							
EM2209548-014	SX_IB_20220523_07_58_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	107	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	111	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	107	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# Not Determined	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4368596)							
EM2209548-002	SX_IB_20220523_07_58_SS_Duplicate_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	102	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	123	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	71.8	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EM2209548	Page	: 1 of 16
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Telephone	: +61-3-8549 9600
Project	: JC0927	Date Samples Received	: 24-May-2022
Site	: 20220524052315-ALS-14	Issue Date	: 31-May-2022
Sampler	: Dayle B - EP Risk Brandon - Agon	No. of samples received	: 24
Order number	: ----	No. of samples analysed	: 24

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** Laboratory Control outliers occur.
- Duplicate outliers exist - please see following pages for full details.
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Duplicate (DUP) RPDs							
EG005(ED093)T: Total Metals by ICP-AES	EM2209261--003	Anonymous	Nickel	7440-02-0	32.9 %	0% - 20%	RPD exceeds LOR based limits
Matrix Spike (MS) Recoveries							
EG005(ED093)T: Total Metals by ICP-AES	EM2209548--006	SX_OB_20220523_15_59_SS	Arsenic	7440-38-2	30.5 %	78.0-124%	Recovery less than lower data quality objective
EG005(ED093)T: Total Metals by ICP-AES	EM2209548--006	SX_OB_20220523_15_59_SS	Chromium	7440-47-3	71.6 %	79.0-121%	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	EM2209548--014	SX_IB_20220523_07_58_SS	Perfluorododecanoic acid (PFDoDA)	307-55-1	53.2 %	72.0-134%	Recovery less than lower data quality objective
EP231C: Perfluoroalkyl Sulfonamides	EM2209548--014	SX_IB_20220523_07_58_SS	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	64.6 %	70.0-130%	Recovery less than lower data quality objective
EP231C: Perfluoroalkyl Sulfonamides	EM2209548--014	SX_IB_20220523_07_58_SS	N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	67.0 %	70.0-130%	Recovery less than lower data quality objective
EP231C: Perfluoroalkyl Sulfonamides	EM2209548--014	SX_IB_20220523_07_58_SS	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	54.9 %	65.0-136%	Recovery less than lower data quality objective
EP231C: Perfluoroalkyl Sulfonamides	EM2209548--014	SX_IB_20220523_07_58_SS	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	59.8 %	61.0-135%	Recovery less than lower data quality objective

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA001: pH in soil using 0.01M CaCl extract								
Soil Glass Jar - Unpreserved (EA001) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	30-May-2022	30-May-2022	✓	30-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EA001) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	30-May-2022	31-May-2022	✓	30-May-2022	30-May-2022	✓
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	----	----	----	27-May-2022	06-Jun-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	----	----	----	27-May-2022	07-Jun-2022	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	28-May-2022	19-Nov-2022	✓	28-May-2022	19-Nov-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	28-May-2022	20-Nov-2022	✓	28-May-2022	20-Nov-2022	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	28-May-2022	20-Jun-2022	✓	30-May-2022	20-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	28-May-2022	21-Jun-2022	✓	30-May-2022	21-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	
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	28-May-2022	20-Jun-2022	✓	30-May-2022	04-Jun-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	28-May-2022	21-Jun-2022	✓	30-May-2022	04-Jun-2022	✓
EK026SF: Total CN by Segmented Flow Analyser								
Soil Glass Jar - Unpreserved (EK026SF) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	28-May-2022	06-Jun-2022	✓	30-May-2022	11-Jun-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	28-May-2022	07-Jun-2022	✓	30-May-2022	11-Jun-2022	✓
EK040T: Fluoride Total								
Soil Glass Jar - Unpreserved (EK040T) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	28-May-2022	20-Jun-2022	✓	31-May-2022	20-Jun-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	28-May-2022	21-Jun-2022	✓	31-May-2022	21-Jun-2022	✓
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	19-Nov-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	20-Nov-2022	✓	----	----	----



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	19-Nov-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	20-Nov-2022	✓	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Soil Glass Jar - Unpreserved (EP066-EM)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	06-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	07-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	25-May-2022	30-May-2022	✓	26-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	25-May-2022	31-May-2022	✓	26-May-2022	31-May-2022	✓
EP074H: Naphthalene								
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	25-May-2022	30-May-2022	✓	26-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	25-May-2022	31-May-2022	✓	26-May-2022	31-May-2022	✓



Matrix: SOIL

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Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP074I: Volatile Halogenated Compounds								
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	25-May-2022	30-May-2022	✓	26-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	25-May-2022	31-May-2022	✓	26-May-2022	31-May-2022	✓
EP075A: Phenolic Compounds (Halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	06-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	07-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
EP075A: Phenolic Compounds (Non-halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	06-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	07-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	06-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	07-Jun-2022	✓	27-May-2022	06-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	
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	06-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	07-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	25-May-2022	30-May-2022	✓	26-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	06-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	25-May-2022	31-May-2022	✓	26-May-2022	31-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	07-Jun-2022	✓	27-May-2022	06-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_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	25-May-2022	30-May-2022	✓	26-May-2022	30-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	06-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	25-May-2022	31-May-2022	✓	26-May-2022	31-May-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	07-Jun-2022	✓	27-May-2022	06-Jul-2022	✓
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	19-Nov-2022	✓	27-May-2022	06-Jul-2022	✓
HDPE Soil Jar (EP231X)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	20-Nov-2022	✓	27-May-2022	06-Jul-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	19-Nov-2022	✓	27-May-2022	06-Jul-2022	✓
HDPE Soil Jar (EP231X)								
SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	20-Nov-2022	✓	27-May-2022	06-Jul-2022	✓



Matrix: **SOIL**

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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_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	19-Nov-2022	✓	27-May-2022	06-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	20-Nov-2022	✓	27-May-2022	06-Jul-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	19-Nov-2022	✓	27-May-2022	06-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	20-Nov-2022	✓	27-May-2022	06-Jul-2022	✓
EP231P: PFAS Sums								
HDPE Soil Jar (EP231X) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS,	23-May-2022	27-May-2022	19-Nov-2022	✓	27-May-2022	06-Jul-2022	✓
HDPE Soil Jar (EP231X) SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	SX_OB_20220524_00_15_SS_Primary_ALS,	24-May-2022	27-May-2022	20-Nov-2022	✓	27-May-2022	06-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) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	27-May-2022	30-May-2022	23-Nov-2022	✓	30-May-2022	23-Nov-2022	✓	
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	27-May-2022	30-May-2022	23-Nov-2022	✓	30-May-2022	23-Nov-2022	✓	
EP231C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X) SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	27-May-2022	30-May-2022	23-Nov-2022	✓	30-May-2022	23-Nov-2022	✓	



Matrix: **WATER** Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS,	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	27-May-2022	30-May-2022	23-Nov-2022	✓	30-May-2022	23-Nov-2022	✓
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X)								
SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Primary_ALS, SX_OB_20220523_08_09_SS_Primary_ALS, SX_IB_20220523_15_53_SS_Primary_ALS, SX_OB_20220523_16_03_SS_Primary_ALS, SX_OB_20220523_20_15_SS_Primary_ALS, SX_OB_20220524_00_15_SS_Primary_ALS,	SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS, SX_IB_20220523_07_58_SS_Duplicate_ALS, SX_OB_20220523_12_02_SS_PRIMARY_ALS, SX_OB_20220523_15_59_SS_Triplicate_ALS, SX_OB_20220523_20_10_SS_Triplicate_ALS, SX_IB_20220524_00_07_SS_Primary_ALS, SX_OB_20220524_04_12_SS_Primary_ALS	27-May-2022	30-May-2022	23-Nov-2022	✓	30-May-2022	23-Nov-2022	✓



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	12	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	12	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	4	36	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	39	10.26	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	5	40	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	12	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	12	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	39	5.13	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	39	5.13	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Matrix: **SOIL** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	36	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	39	5.13	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	3	40	7.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	24	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl ₂ extract	EA001	SOIL	In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Total Cyanide by Segmented Flow Analyser	EK026SF	SOIL	In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3).
Total Fluoride	EK040T	SOIL	(In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.
PCB - VIC EPA 448.3 Screen	EP066-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071-EM	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
Volatile Organic Compounds - Ultra-trace	EP074-UT	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).



Analytical Methods	Method	Matrix	Method Descriptions
Volatile Organic Compounds - Ultra-trace - Summations	EP074-UT-SUM	SOIL	Summation of MAHs and VHCs
Semivolatile Organic Compounds - Waste Classification	EP075-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
SVOC - Waste Classification (Sums)	EP075-EM-SUM	SOIL	Summations for EP075 (EM variation)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
NaOH leach for CN in Soils	CN-PR	SOIL	In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.
pH in soil using a 0.01M CaCl ₂ extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Total Fluoride	EK040T-PR	SOIL	In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils - Ultra-trace.	ORG16-UT	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids - VIC EPA Screen	ORG17-EM	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
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.

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Client : AGON ENVIRONMENTAL PTY LTD
Project : JC0927



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
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.