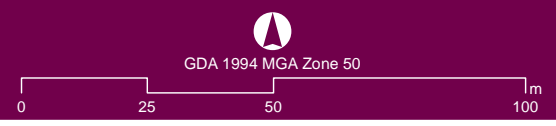


LEGEND

- SRC Project boundary
- Site boundary
- Sediment sampling locations



Figure E
Sediment sampling locations



Job Number: C20078-006
 Date: 24.03.21
 Scale: 1:1,500 @ A3
 Created by: RL
 Source: Orthophoto - Landgate, Jan 2020






Figure F
Sediment guideline exceedances locations

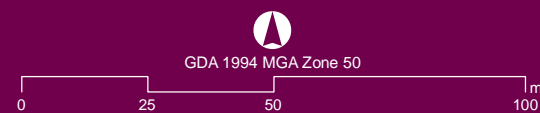
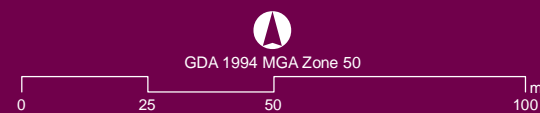




Figure G

Elutriate guideline exceedances locations

Document Path: G:\Jobs\C_Jobs\C20078 - MRWA SR Bridge\Figures C20078-006\C20078-006_G_FigG Elutriate Guideline Exceedances_210324.mxd



Job Number: C20078-006
 Date: 24.03.21
 Scale: 1:1,500 @ A3
 Created by: MA

Source: Orthophoto - Landgate, Jan 2020



Appendix A

Certificates of Title

WESTERN



AUSTRALIA

REGISTER NUMBER 4565/DP220793	
DUPLICATE EDITION N/A	DATE DUPLICATE ISSUED N/A

RECORD OF QUALIFIED CERTIFICATE
OF
CROWN LAND TITLE

VOLUME FOLIO
LR3117 615

UNDER THE TRANSFER OF LAND ACT 1893
AND THE LAND ADMINISTRATION ACT 1997
NO DUPLICATE CREATED

The undermentioned land is Crown land in the name of the STATE OF WESTERN AUSTRALIA, subject to the interests and Status Orders shown in the first schedule which are in turn subject to the limitations, interests, encumbrances and notifications shown in the second schedule.

BGRoberts
REGISTRAR OF TITLES



LAND DESCRIPTION:

LOT 4565 ON DEPOSITED PLAN 220793

STATUS ORDER AND PRIMARY INTEREST HOLDER:
(FIRST SCHEDULE)

STATUS ORDER/INTEREST: RESERVE UNDER MANAGEMENT ORDER

PRIMARY INTEREST HOLDER: FREMANTLE PORT AUTHORITY OF PO BOX 95, FREMANTLE
(XE K782044) REGISTERED 25/11/2008

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

1. H267246 MEMORIAL. HERITAGE OF WESTERN AUSTRALIA ACT 1990. AS TO PORTION ONLY. LODGED 1/11/1999.
2. J939649 MEMORIAL. HERITAGE OF WESTERN AUSTRALIA ACT 1990. AS TO PORTION ONLY LODGED 5/10/2006.
3. L852161 RESERVE 49979 FOR THE PURPOSE OF USE AND REQUIREMENTS OF THE PORT AUTHORITIES ACT 1999 REGISTERED 8/2/2012.
K782044 MANAGEMENT ORDER. CONTAINS CONDITIONS TO BE OBSERVED. REGISTERED 25/11/2008.
L852161 AMENDMENT OF RESERVE. RESERVE AMENDED. REGISTERED 8/2/2012.
4. L852163 PORTION COMPRISED IN INSET LOT 514 ON DP69297 AMALGAMATED INTO LOT 1 ON PLAN 23900 TO VOL. 2195 FOL. 724. REGISTERED 8/2/2012.
5. N966198 CAVEAT BY GOVERNOR FITZGERALD HOLDINGS PTY LTD AS TO PORTION ONLY LODGED 16/8/2018.
6. O536469 CAVEAT BY 12 ROUS HEAD PTY LTD AS TO PORTION ONLY LODGED 27/10/2020.
7. O544973 CAVEAT BY NATIONAL AUSTRALIA BANK LIMITED AS TO PORTION ONLY LODGED 4/11/2020.

Warning: (1) A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.
(2) The land and interests etc. shown hereon may be affected by interests etc. that can be, but are not, shown on the register.

END OF PAGE 1 - CONTINUED OVER

ORIGINAL CERTIFICATE OF CROWN LAND TITLE
QUALIFIED

REGISTER NUMBER: 4565/DP220793

VOLUME/FOLIO: LR3117-615

PAGE 2

(3) The interests etc. shown hereon may have a different priority than shown.

-----END OF CERTIFICATE OF CROWN LAND TITLE-----

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND:	LR3117-615 (4565/DP220793)
PREVIOUS TITLE:	LR3068-208
PROPERTY STREET ADDRESS:	NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AUTHORITY:	NO LOCAL GOVERNMENT AUTHORITY INFORMATION AVAILABLE
RESPONSIBLE AGENCY:	FREMANTLE PORT AUTHORITY

NOTE 1:	A000001A	CORRESPONDENCE FILE 01373-1918-01RO.
NOTE 2:		SUBJECT TO SURVEY - NOT FOR ALIENATION PURPOSES
NOTE 3:		LAND PARCEL IDENTIFIER OF COCKBURN SOUND LOCATION 4565 ON SUPERSEDED PAPER CERTIFICATE OF CROWN LAND TITLE CHANGED TO LOT 4565 ON DEPOSITED PLAN 220793 ON 09-SEP-02 TO ENABLE ISSUE OF A DIGITAL CERTIFICATE OF TITLE.
NOTE 4:		THE ABOVE NOTE MAY NOT BE SHOWN ON THE SUPERSEDED PAPER CERTIFICATE OF TITLE.
NOTE 5:	J796903	DEPOSITED PLAN 49597 AS TO INTEREST ONLY LODGED
NOTE 6:	K782043	CORRESPONDENCE FILE 01449-2008-01RO

WESTERN



AUSTRALIA

REGISTER NUMBER 302/DP49597	
DUPLICATE EDITION N/A	DATE DUPLICATE ISSUED N/A

VOLUME **LR3140** FOLIO **594**

**RECORD OF QUALIFIED CERTIFICATE
OF
CROWN LAND TITLE
UNDER THE TRANSFER OF LAND ACT 1893
AND THE LAND ADMINISTRATION ACT 1997
NO DUPLICATE CREATED**

The undermentioned land is Crown land in the name of the STATE OF WESTERN AUSTRALIA, subject to the interests and Status Orders shown in the first schedule which are in turn subject to the limitations, interests, encumbrances and notifications shown in the second schedule.

BGRoberts
REGISTRAR OF TITLES



LAND DESCRIPTION:

LOT 302 ON DEPOSITED PLAN 49597

**STATUS ORDER AND PRIMARY INTEREST HOLDER:
(FIRST SCHEDULE)**

STATUS ORDER/INTEREST: UNALLOCATED CROWN LAND

PRIMARY INTEREST HOLDER: STATE OF WESTERN AUSTRALIA

**LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)**

1. J939648 MEMORIAL. HERITAGE OF WESTERN AUSTRALIA ACT 1990. LODGED 5/10/2006.

- Warning:
- (1) A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.
 - (2) The land and interests etc. shown hereon may be affected by interests etc. that can be, but are not, shown on the register.
 - (3) The interests etc. shown hereon may have a different priority than shown.

-----END OF CERTIFICATE OF CROWN LAND TITLE-----

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND:	DP49597
PREVIOUS TITLE:	LR3140-594
PROPERTY STREET ADDRESS:	NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AUTHORITY:	NO LOCAL GOVERNMENT AUTHORITY INFORMATION AVAILABLE
RESPONSIBLE AGENCY:	DEPARTMENT OF PLANNING, LANDS AND HERITAGE (SLSD)

Appendix B

Sediment Sampling Logs

Appendix C

Laboratory Documentation



CERTIFICATE OF ANALYSIS 254436

Client Details

Client	RPS Australia West Pty Ltd
Attention	Alan Foley
Address	Level 2, 27-31 Troode St, WEST PERTH, WA, 6005

Sample Details

Your Reference	<u>EEC2078.006 - Fremantle Traffic Bridge</u>
Number of Samples	51 Sediment, 3 Waters
Date samples received	09/12/2020
Date completed instructions received	09/12/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by 28/01/2021

Date of Issue 28/01/2021

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By

Heram Halim, Operations Manager
Stacey Hawkins, Acid Soils Supervisor
Travis Carey, Organics - Team Leader

Authorised By

Michael Kubiak, Laboratory Manager

Metals - soil						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date digested	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	22/12/2020	22/12/2020	22/12/2020	22/12/2020	22/12/2020
Silver	mg/kg	<1	<1	<1	<1	<1
Aluminium	mg/kg	460	740	810	1,200	1,300
Arsenic	mg/kg	5	6	6	6	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Cobalt	mg/kg	<1	<1	<1	<1	<1
Chromium	mg/kg	4	10	8	6	5
Copper	mg/kg	2	6	6	8	9
Iron	mg/kg	530	2,800	2,100	1,700	1,700
Mercury	mg/kg	<0.1	<0.1	<0.1	0.3	<0.1
Manganese	mg/kg	9	17	17	34	44
Molybdenum	mg/kg	<1	<1	1	<1	1
Nickel	mg/kg	1	3	2	2	2
Lead	mg/kg	4	5	5	12	13
Antimony	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Selenium	mg/kg	<2	<2	<2	<2	<2
Zinc	mg/kg	2	6	7	17	14

Metals - soil						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date digested	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	22/12/2020	22/12/2020	22/12/2020	22/12/2020	22/12/2020
Silver	mg/kg	<1	<1	<1	<1	<1
Aluminium	mg/kg	4,900	2,900	1,000	1,900	4,500
Arsenic	mg/kg	5	7	7	11	14
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Cobalt	mg/kg	3	2	1	<1	2
Chromium	mg/kg	19	10	5	11	20
Copper	mg/kg	<1	1	13	4	4
Iron	mg/kg	2,800	2,000	2,300	1,500	3,200
Mercury	mg/kg	<0.1	<0.1	1.0	<0.1	<0.1
Manganese	mg/kg	11	13	20	11	15
Molybdenum	mg/kg	2	2	<1	6	11
Nickel	mg/kg	3	3	2	4	7
Lead	mg/kg	4	4	19	9	7
Antimony	mg/kg	<0.5	<0.5	0.7	<0.5	<0.5
Selenium	mg/kg	<2	<2	<2	<2	<2
Zinc	mg/kg	1	2	38	5	2

Metals - soil						
Our Reference		254436-32	254436-33	254436-34	254436-42	254436-43
Your Reference	UNITS	SS10-01	SS10-02	SS10-03	SS5-01	SS5-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date digested	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	22/12/2020	22/12/2020	22/12/2020	22/12/2020	22/12/2020
Silver	mg/kg	<1	<1	<1	<1	1
Aluminium	mg/kg	3,500	2,200	2,400	380	780
Arsenic	mg/kg	9	13	11	4	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Cobalt	mg/kg	1	1	<1	<1	<1
Chromium	mg/kg	8	12	11	3	3
Copper	mg/kg	11	10	1	1	<1
Iron	mg/kg	9,000	3,400	1,800	500	480
Mercury	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Manganese	mg/kg	43	24	12	20	8
Molybdenum	mg/kg	2	8	8	<1	2
Nickel	mg/kg	2	4	4	<1	1
Lead	mg/kg	20	26	5	3	3
Antimony	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Selenium	mg/kg	<2	<2	<2	<2	<2
Zinc	mg/kg	20	27	1	3	<1

Metals - soil			
Our Reference		254436-44	254436-54
Your Reference	UNITS	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020
Type of sample		Sediment	Sediment
Date digested	-	14/12/2020	14/12/2020
Date analysed	-	22/12/2020	22/12/2020
Silver	mg/kg	<1	<1
Aluminium	mg/kg	890	520
Arsenic	mg/kg	6	5
Cadmium	mg/kg	<0.4	<0.4
Cobalt	mg/kg	<1	<1
Chromium	mg/kg	4	4
Copper	mg/kg	<1	1
Iron	mg/kg	600	470
Mercury	mg/kg	<0.1	<0.1
Manganese	mg/kg	8	15
Molybdenum	mg/kg	2	<1
Nickel	mg/kg	2	1
Lead	mg/kg	3	4
Antimony	mg/kg	<0.5	<0.5
Selenium	mg/kg	<2	<2
Zinc	mg/kg	<1	2

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

sTRH in Sediment (C10-C36)						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
TRH C ₁₀ - C ₁₄	mg/kg	<25	<25	<25	<25	<25
TRH C ₁₅ - C ₂₈	mg/kg	<25	<25	<25	<25	<25
TRH C ₂₉ - C ₃₆	mg/kg	<25	<25	<25	<25	<25
TRH >C ₁₀ - C ₁₆	mg/kg	<25	<25	<25	<25	<25
TRH >C ₁₆ - C ₃₄	mg/kg	<25	<25	<25	<25	<25
TRH >C ₃₄ - C ₄₀	mg/kg	<25	<25	<25	<25	<25

sTRH in Sediment (C10-C36)						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
TRH C ₁₀ - C ₁₄	mg/kg	<25	<25	<25	<25	<25
TRH C ₁₅ - C ₂₈	mg/kg	<25	<25	93	<25	<25
TRH C ₂₉ - C ₃₆	mg/kg	<25	<25	85	<25	<25
TRH >C ₁₀ - C ₁₆	mg/kg	<25	<25	<25	<25	<25
TRH >C ₁₆ - C ₃₄	mg/kg	<25	<25	160	<25	<25
TRH >C ₃₄ - C ₄₀	mg/kg	<25	<25	31	<25	<25

sTRH in Sediment (C10-C36)						
Our Reference		254436-32	254436-33	254436-34	254436-42	254436-43
Your Reference	UNITS	SS10-01	SS10-02	SS10-03	SS5-01	SS5-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
TRH C ₁₀ - C ₁₄	mg/kg	<25	<25	<25	<25	<25
TRH C ₁₅ - C ₂₈	mg/kg	<25	<25	<25	<25	<25
TRH C ₂₉ - C ₃₆	mg/kg	45	<25	<25	<25	<25
TRH >C ₁₀ - C ₁₆	mg/kg	<25	<25	<25	<25	<25
TRH >C ₁₆ - C ₃₄	mg/kg	37	<25	<25	<25	<25
TRH >C ₃₄ - C ₄₀	mg/kg	40	<25	<25	<25	<25

STRH in Sediment (C10-C36)			
Our Reference		254436-44	254436-54
Your Reference	UNITS	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020
Type of sample		Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020
TRH C ₁₀ - C ₁₄	mg/kg	<25	<25
TRH C ₁₅ - C ₂₈	mg/kg	<25	<25
TRH C ₂₉ - C ₃₆	mg/kg	<25	<25
TRH >C ₁₀ - C ₁₆	mg/kg	<25	<25
TRH >C ₁₆ - C ₃₄	mg/kg	<25	<25
TRH >C ₃₄ - C ₄₀	mg/kg	<25	<25

TRH in Sediment (C6-C9) + BTEX

Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
m+p-xylene	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
o-xylene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate aaa-Trifluorotoluene	%	80	79	83	82	81

TRH in Sediment (C6-C9) + BTEX

Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
m+p-xylene	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
o-xylene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate aaa-Trifluorotoluene	%	85	81	90	73	75

TRH in Sediment (C6-C9) + BTEX						
Our Reference		254436-32	254436-33	254436-34	254436-42	254436-43
Your Reference	UNITS	SS10-01	SS10-02	SS10-03	SS5-01	SS5-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
m+p-xylene	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
o-xylene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate aaa-Trifluorotoluene	%	87	74	76	83	87

TRH in Sediment (C6-C9) + BTEX			
Our Reference		254436-44	254436-54
Your Reference	UNITS	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020
Type of sample		Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020
TRH C ₆ - C ₉	mg/kg	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.2	<0.2
Ethylbenzene	mg/kg	<0.2	<0.2
m+p-xylene	mg/kg	<0.4	<0.4
o-xylene	mg/kg	<0.2	<0.2
Surrogate aaa-Trifluorotoluene	%	81	81

PAHs in Soil						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate p-Terphenyl-D ₁₄	%	84	85	92	87	87

PAHs in Soil						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	3.7	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	0.9	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	8.2	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	6.8	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	5.5	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	4.7	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	9.0	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	4.8	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	3.6	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	0.8	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	3.3	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	7.6	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	7.6	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	7.6	<0.5	<0.5
Total Positive PAHs	mg/kg	<0.05	<0.05	52	<0.05	<0.05
Surrogate p-Terphenyl-D ₁₄	%	83	89	98	95	95

PAHs in Soil						
Our Reference		254436-32	254436-33	254436-34	254436-42	254436-43
Your Reference	UNITS	SS10-01	SS10-02	SS10-03	SS5-01	SS5-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.3	<0.2	0.3	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.15	<0.05	0.19	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/kg	1.3	<0.05	0.89	<0.05	<0.05
Surrogate p-Terphenyl-D ₁₄	%	97	82	93	90	87

PAHs in Soil			
Our Reference		254436-44	254436-54
Your Reference	UNITS	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020
Type of sample		Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Total Positive PAHs	mg/kg	<0.05	<0.05
Surrogate p-Terphenyl-D ₁₄	%	104	84

Speciated Phenols in Soil						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Phenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
4-Chloro-3-methylphenol	mg/kg	<5	<5	<5	<5	<5
2-Methylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
3/4-Methylphenol	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
2-Nitrophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dimethylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<4	<4	<4	<4	<4
4-Nitrophenol	mg/kg	<4	<4	<4	<4	<4
2,3,4,6-Tetrachlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Methyl-4,6-dinitrophenol	mg/kg	<10	<10	<10	<10	<10
Pentachlorophenol	mg/kg	<5	<5	<5	<5	<5
Surrogate Phenol-d ₆	%	80	73	73	74	74
Surrogate 2-fluorophenol	%	93	82	79	79	81

Speciated Phenols in Soil						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Phenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
4-Chloro-3-methylphenol	mg/kg	<5	<5	<5	<5	<5
2-Methylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
3/4-Methylphenol	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
2-Nitrophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dimethylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<4	<4	<4	<4	<4
4-Nitrophenol	mg/kg	<4	<4	<4	<4	<4
2,3,4,6-Tetrachlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Methyl-4,6-dinitrophenol	mg/kg	<10	<10	<10	<10	<10
Pentachlorophenol	mg/kg	<5	<5	<5	<5	<5
Surrogate Phenol-d ₆	%	70	72	71	79	82
Surrogate 2-fluorophenol	%	86	87	85	83	91

Speciated Phenols in Soil						
Our Reference		254436-32	254436-33	254436-34	254436-42	254436-43
Your Reference	UNITS	SS10-01	SS10-02	SS10-03	SS5-01	SS5-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Phenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
4-Chloro-3-methylphenol	mg/kg	<5	<5	<5	<5	<5
2-Methylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
3/4-Methylphenol	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
2-Nitrophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dimethylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<4	<4	<4	<4	<4
4-Nitrophenol	mg/kg	<4	<4	<4	<4	<4
2,3,4,6-Tetrachlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Methyl-4,6-dinitrophenol	mg/kg	<10	<10	<10	<10	<10
Pentachlorophenol	mg/kg	<5	<5	<5	<5	<5
Surrogate Phenol-d ₆	%	87	78	82	78	77
Surrogate 2-fluorophenol	%	96	90	92	99	107

Speciated Phenols in Soil			
Our Reference		254436-44	254436-54
Your Reference	UNITS	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020
Type of sample		Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020
Phenol	mg/kg	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.2	<0.2
4-Chloro-3-methylphenol	mg/kg	<5	<5
2-Methylphenol	mg/kg	<0.2	<0.2
3/4-Methylphenol	mg/kg	<0.4	<0.4
2-Nitrophenol	mg/kg	<0.2	<0.2
2,4-Dimethylphenol	mg/kg	<0.2	<0.2
2,4-Dichlorophenol	mg/kg	<0.2	<0.2
2,6-Dichlorophenol	mg/kg	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<4	<4
4-Nitrophenol	mg/kg	<4	<4
2,3,4,6-Tetrachlorophenol	mg/kg	<0.2	<0.2
2-Methyl-4,6-dinitrophenol	mg/kg	<10	<10
Pentachlorophenol	mg/kg	<5	<5
Surrogate Phenol-d ₆	%	86	80
Surrogate 2-fluorophenol	%	86	88

OCP in Sediment (NAGD)						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	18/12/2020	18/12/2020	18/12/2020	18/12/2020	18/12/2020
Hexachlorobenzene (HCB)	µg/kg	<1	<1	<1	<1	<1
a-BHC	µg/kg	<1	<1	<1	<1	<1
b-BHC	µg/kg	<1	<1	<1	<1	<1
Lindane (g-BHC)	µg/kg	<0.9	<0.9	<0.9	<0.9	<0.9
d-BHC	µg/kg	<1	<1	<1	<1	<1
Heptachlor	µg/kg	<1	<1	<1	<1	<1
Aldrin	µg/kg	<1	<1	<1	<1	<1
Heptachlor Epoxide	µg/kg	<1	<1	<1	<1	<1
a-chlordane	µg/kg	<1	<1	<1	<1	<1
g-Chlordane	µg/kg	<1	<1	<1	<1	<1
a-endosulphan	µg/kg	<1	<1	<1	<1	<1
p,p'-DDE	µg/kg	<1	<1	<1	<1	<1
Dieldrin	µg/kg	<1	<1	<1	<1	<1
Endrin	µg/kg	<1	<1	<1	<1	<1
p,p'-DDD	µg/kg	<1	<1	<1	<1	<1
o,p'-DDD	µg/kg	<1	<1	<1	<1	<1
DDD	µg/kg	<2	<2	<2	<2	<2
b-endosulphan	µg/kg	<2	<1	<1	<1	<1
Endosulfan Sulphate	µg/kg	<1	<1	<1	<1	<1
p,p'-DDT	µg/kg	<1	<1	<1	<1	<1
Methoxychlor	µg/kg	<1	<1	<1	<1	<1
Oxychlordane	µg/kg	<1	<1	<1	<1	<1
Surrogate 2-chlorophenol-d4	%	80	76	71	71	67

OCP in Sediment (NAGD)						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	18/12/2020	18/12/2020	18/12/2020	18/12/2020	18/12/2020
Hexachlorobenzene (HCB)	µg/kg	<1	<1	<1	<1	<1
a-BHC	µg/kg	<1	<1	<1	<1	<1
b-BHC	µg/kg	<1	<1	<1	<1	<1
Lindane (g-BHC)	µg/kg	<0.9	<0.9	<0.9	<0.9	<0.9
d-BHC	µg/kg	<1	<1	<1	<1	<1
Heptachlor	µg/kg	<1	<1	<1	<1	<1
Aldrin	µg/kg	<1	<1	<1	<1	<1
Heptachlor Epoxide	µg/kg	<1	<1	<1	<1	<1
a-chlordane	µg/kg	<1	<1	<1	<1	<1
g-Chlordane	µg/kg	<1	<1	<1	<1	<1
a-endosulphan	µg/kg	<1	<1	<1	<1	<1
p,p'-DDE	µg/kg	<1	<1	<1	<1	<1
Dieldrin	µg/kg	<1	<1	<1	<1	<1
Endrin	µg/kg	<1	<1	<1	<1	<1
p,p'-DDD	µg/kg	<1	<1	<1	<1	<1
o,p'-DDD	µg/kg	<1	<1	<1	<1	<1
DDD	µg/kg	<2	<2	<2	<2	<2
b-endosulphan	µg/kg	<1	<1	<1	<1	<1
Endosulfan Sulphate	µg/kg	<1	<1	<1	<1	<1
p,p'-DDT	µg/kg	<1	<1	<1	<1	<1
Methoxychlor	µg/kg	<1	<1	<1	<1	<1
Oxychlordane	µg/kg	<1	<1	<1	<1	<1
Surrogate 2-chlorophenol-d4	%	92	71	74	63	91

OCP in Sediment (NAGD)						
Our Reference		254436-32	254436-33	254436-34	254436-42	254436-43
Your Reference	UNITS	SS10-01	SS10-02	SS10-03	SS5-01	SS5-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	18/12/2020	18/12/2020	18/12/2020	18/12/2020	18/12/2020
Hexachlorobenzene (HCB)	µg/kg	<1	<1	<1	<1	<1
a-BHC	µg/kg	<1	<1	<1	<1	<1
b-BHC	µg/kg	<1	<1	<1	<1	<1
Lindane (g-BHC)	µg/kg	<0.9	<0.9	<0.9	<0.9	<0.9
d-BHC	µg/kg	<1	<1	<1	<1	<1
Heptachlor	µg/kg	<1	<1	<1	<1	<1
Aldrin	µg/kg	<1	<1	<1	<1	<1
Heptachlor Epoxide	µg/kg	<1	<1	<1	<1	<1
a-chlordane	µg/kg	<1	<1	<1	<1	<1
g-Chlordane	µg/kg	<1	<1	<1	<1	<1
a-endosulphan	µg/kg	<1	<1	<1	<1	<1
p,p'-DDE	µg/kg	<1	<1	<1	<1	<1
Dieldrin	µg/kg	<1	<1	<1	<1	<1
Endrin	µg/kg	<1	<1	<1	<1	<1
p,p'-DDD	µg/kg	<1	<1	<1	<1	<1
o,p'-DDD	µg/kg	<1	<1	<1	<1	<1
DDD	µg/kg	<2	<2	<2	<2	<2
b-endosulphan	µg/kg	<1	<1	<1	<1	<1
Endosulfan Sulphate	µg/kg	<1	<1	<1	<1	<1
p,p'-DDT	µg/kg	<1	<1	<1	<1	<1
Methoxychlor	µg/kg	<1	<1	<1	<1	<1
Oxychlordane	µg/kg	<1	<1	<1	<1	<1
Surrogate 2-chlorophenol-d4	%	74	83	64	106	76

OCP in Sediment (NAGD)			
Our Reference		254436-44	254436-54
Your Reference	UNITS	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020
Type of sample		Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020
Date analysed	-	18/12/2020	18/12/2020
Hexachlorobenzene (HCB)	µg/kg	<1	<1
a-BHC	µg/kg	<1	<1
b-BHC	µg/kg	<1	<1
Lindane (g-BHC)	µg/kg	<0.9	<0.9
d-BHC	µg/kg	<1	<1
Heptachlor	µg/kg	<1	<1
Aldrin	µg/kg	<1	<1
Heptachlor Epoxide	µg/kg	<1	<1
a-chlordane	µg/kg	<1	<1
g-Chlordane	µg/kg	<1	<1
a-endosulphan	µg/kg	<1	<1
p,p'-DDE	µg/kg	<1	<1
Dieldrin	µg/kg	<1	<1
Endrin	µg/kg	<1	<1
p,p'-DDD	µg/kg	<1	<1
o,p'-DDD	µg/kg	<1	<1
DDD	µg/kg	<2	<2
b-endosulphan	µg/kg	<1	<1
Endosulfan Sulphate	µg/kg	<1	<1
p,p'-DDT	µg/kg	<1	<1
Methoxychlor	µg/kg	<1	<1
Oxychlordane	µg/kg	<1	<1
Surrogate 2-chlorophenol-d4	%	79	68

Organotin Compounds in Soil						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Monobutyltin as Sn	µg Sn/kg	0.7	2	2	2	6.9
Dibutyltin as Sn	µg Sn/kg	<0.5	<0.5	<0.5	0.5	1
Tributyltin as Sn	µg Sn/kg	<0.5	<0.5	<0.5	0.7	1
Surrogate Triphenyltin	%	100	100	99	97	96

Organotin Compounds in Soil						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Monobutyltin as Sn	µg Sn/kg	5.8	2	2	<0.5	<0.5
Dibutyltin as Sn	µg Sn/kg	2	<0.5	0.7	<0.5	<0.5
Tributyltin as Sn	µg Sn/kg	<0.5	<0.5	0.6	<0.5	<0.5
Surrogate Triphenyltin	%	95	94	98	94	93

Organotin Compounds in Soil						
Our Reference		254436-32	254436-33	254436-34	254436-42	254436-43
Your Reference	UNITS	SS10-01	SS10-02	SS10-03	SS5-01	SS5-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Monobutyltin as Sn	µg Sn/kg	4	33	<0.5	<0.5	<0.5
Dibutyltin as Sn	µg Sn/kg	2	5.9	<0.5	<0.5	<0.5
Tributyltin as Sn	µg Sn/kg	1	5.1	<0.5	<0.5	<0.5
Surrogate Triphenyltin	%	98	93	95	97	98

Organotin Compounds in Soil			
Our Reference		254436-44	254436-54
Your Reference	UNITS	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020
Type of sample		Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020
Monobutyltin as Sn	µg Sn/kg	<0.5	<0.5
Dibutyltin as Sn	µg Sn/kg	<0.5	<0.5
Tributyltin as Sn	µg Sn/kg	<0.5	<0.5
Surrogate Triphenyltin	%	100	100

PFAS in Soil Extended						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Date analysed	-	15/12/2020	15/12/2020	16/12/2020	16/12/2020	16/12/2020
Perfluorobutanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorohexanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	0.1	<0.1	0.1	<0.1
Perfluorodecanesulfonic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluorobutanoic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluoropentanoic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluorohexanoic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorononanoic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorodecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluorododecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluorotetradecanoic acid	µg/kg	<5	<5	<5	<5	<5
4:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
10:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluorooctane sulfonamide	µg/kg	<1	<1	<1	<1	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1	<1	<1	<1	<1
N-Ethyl perfluorooctanesulfonamide	µg/kg	<1	<1	<1	<1	<1
N-Me perfluorooctanesulfonamide -oethanol	µg/kg	<1	<1	<1	<1	<1
N-Et perfluorooctanesulfonamide -oethanol	µg/kg	<5	<5	<5	<5	<5
MePerfluorooctanesulfonamide acetic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EtPerfluorooctanesulfonamide acetic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate ¹³ C ₈ PFOS	%	100	93	108	110	115
Surrogate ¹³ C ₂ PFOA	%	99	97	99	105	110
Extracted ISTD ¹³ C ₃ PFBS	%	79	83	84	80	80
Extracted ISTD ¹⁸ O ₂ PFHxS	%	83	83	83	80	79
Extracted ISTD ¹³ C ₄ PFOS	%	86	89	83	78	75
Extracted ISTD 13C4 PFBA	%	85	84	76	72	71

PFAS in Soil Extended						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Extracted ISTD ¹³ C ₃ PFPeA	%	83	84	83	81	80
Extracted ISTD ¹³ C ₂ PFHxA	%	87	86	86	79	77
Extracted ISTD ¹³ C ₄ PFHpA	%	84	84	85	79	79
Extracted ISTD ¹³ C ₄ PFOA	%	90	90	83	80	72
Extracted ISTD ¹³ C ₅ PFNA	%	85	84	84	81	79
Extracted ISTD ¹³ C ₂ PFDA	%	83	85	84	82	85
Extracted ISTD ¹³ C ₂ PFUnDA	%	86	88	84	92	86
Extracted ISTD ¹³ C ₂ PFDoDA	%	81	79	82	86	76
Extracted ISTD ¹³ C ₂ PFTeDA	%	47	48	97	116	52
Extracted ISTD ¹³ C ₂ 4:2FTS	%	78	76	76	79	74
Extracted ISTD ¹³ C ₂ 6:2FTS	%	75	71	78	78	70
Extracted ISTD ¹³ C ₂ 8:2FTS	%	66	54	80	81	76
Extracted ISTD ¹³ C ₈ FOSA	%	76	78	83	82	79
Extracted ISTD d ₃ N MeFOSA	%	63	65	72	75	62
Extracted ISTD d ₅ N EtFOSA	%	56	61	68	68	63
Extracted ISTD d ₇ N MeFOSE	%	82	83	84	82	74
Extracted ISTD d ₉ N EtFOSE	%	76	73	83	85	76
Extracted ISTD d ₃ N MeFOSAA	%	77	75	79	73	70
Extracted ISTD d ₅ N EtFOSAA	%	74	74	83	75	73
Total Positive PFHxS & PFOS	µg/kg	<0.1	0.1	<0.1	0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	0.1	<0.1	0.1	<0.1
Total Positive PFAS	µg/kg	<0.1	0.1	<0.1	0.1	<0.1

PFAS in Soil Extended						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Date analysed	-	16/12/2020	16/12/2020	16/12/2020	16/12/2020	16/12/2020
Perfluorobutanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorohexanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	0.1	0.2	0.6
Perfluorodecanesulfonic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluorobutanoic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluoropentanoic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluorohexanoic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorononanoic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorodecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluorododecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluorotetradecanoic acid	µg/kg	<5	<5	<5	<5	<5
4:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
10:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluorooctane sulfonamide	µg/kg	<1	<1	<1	<1	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1	<1	<1	<1	<1
N-Ethyl perfluorooctanesulfon -amide	µg/kg	<1	<1	<1	<1	<1
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	<1	<1	<1	<1	<1
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	<5	<5	<5	<5	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate ¹³ C ₈ PFOS	%	102	106	99	109	107
Surrogate ¹³ C ₂ PFOA	%	105	112	102	102	112
Extracted ISTD ¹³ C ₃ PFBS	%	85	85	85	77	81
Extracted ISTD ¹⁸ O ₂ PFHxS	%	82	81	83	74	79
Extracted ISTD ¹³ C ₄ PFOS	%	84	77	87	69	72
Extracted ISTD ¹³ C ₄ PFBA	%	75	75	74	66	69

PFAS in Soil Extended						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Extracted ISTD ¹³ C ₃ PFPeA	%	83	84	83	75	77
Extracted ISTD ¹³ C ₂ PFHxA	%	81	82	80	71	76
Extracted ISTD ¹³ C ₄ PFHpA	%	82	82	83	75	78
Extracted ISTD ¹³ C ₄ PFOA	%	79	77	83	73	69
Extracted ISTD ¹³ C ₅ PFNA	%	82	80	82	77	79
Extracted ISTD ¹³ C ₂ PFDA	%	83	83	86	80	76
Extracted ISTD ¹³ C ₂ PFUnDA	%	83	88	90	81	83
Extracted ISTD ¹³ C ₂ PFDoDA	%	71	73	84	66	78
Extracted ISTD ¹³ C ₂ PFTeDA	%	32	33	95	48	102
Extracted ISTD ¹³ C ₂ 4:2FTS	%	82	79	80	71	75
Extracted ISTD ¹³ C ₂ 6:2FTS	%	76	76	81	71	72
Extracted ISTD ¹³ C ₂ 8:2FTS	%	81	80	86	76	72
Extracted ISTD ¹³ C ₈ FOSA	%	81	81	85	73	74
Extracted ISTD d ₃ N MeFOSA	%	69	69	71	53	57
Extracted ISTD d ₅ N EtFOSA	%	64	63	71	49	52
Extracted ISTD d ₇ N MeFOSE	%	75	79	80	65	70
Extracted ISTD d ₉ N EtFOSE	%	76	77	87	60	72
Extracted ISTD d ₃ N MeFOSAA	%	72	72	78	64	67
Extracted ISTD d ₅ N EtFOSAA	%	71	72	77	68	73
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	0.1	0.2	0.6
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	0.1	0.2	0.6
Total Positive PFAS	µg/kg	<0.1	<0.1	0.1	0.2	0.6

PFAS in Soil Extended						
Our Reference		254436-26	254436-32	254436-33	254436-34	254436-42
Your Reference	UNITS	SS6Z	SS10-01	SS10-02	SS10-03	SS5-01
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Date analysed	-	16/12/2020	16/12/2020	16/12/2020	16/12/2020	16/12/2020
Perfluorobutanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorohexanesulfonic acid	µg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.3	<0.5	0.2	<0.1	0.4
Perfluorodecanesulfonic acid	µg/kg	<0.2	<0.4	<0.2	<0.2	<0.2
Perfluorobutanoic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluoropentanoic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluorohexanoic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorononanoic acid	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorodecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluorododecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Perfluorotetradecanoic acid	µg/kg	<5	<5	<5	<5	<5
4:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
10:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Perfluorooctane sulfonamide	µg/kg	<1	<1	<1	<1	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1	<1	<1	<1	<1
N-Ethyl perfluorooctanesulfonamide	µg/kg	<1	<1	<1	<1	<1
N-Me perfluorooctanesulfonamide -oethanol	µg/kg	<1	<1	<1	<1	<1
N-Et perfluorooctanesulfonamide -oethanol	µg/kg	<5	<5	<5	<5	<5
MePerfluorooctanesulfonamide acetic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EtPerfluorooctanesulfonamide acetic acid	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate ¹³ C ₈ PFOS	%	106	119	106	105	113
Surrogate ¹³ C ₂ PFOA	%	106	107	112	110	109
Extracted ISTD ¹³ C ₃ PFBS	%	78	87	80	82	86
Extracted ISTD ¹⁸ O ₂ PFHxS	%	80	87	79	82	89
Extracted ISTD ¹³ C ₄ PFOS	%	71	80	72	75	77
Extracted ISTD ¹³ C ₄ PFBA	%	68	75	68	72	76

PFAS in Soil Extended						
Our Reference		254436-26	254436-32	254436-33	254436-34	254436-42
Your Reference	UNITS	SS6Z	SS10-01	SS10-02	SS10-03	SS5-01
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Extracted ISTD ¹³ C ₃ PFPeA	%	77	83	77	80	85
Extracted ISTD ¹³ C ₂ PFHxA	%	73	80	73	76	84
Extracted ISTD ¹³ C ₄ PFHpA	%	79	82	75	78	83
Extracted ISTD ¹³ C ₄ PFOA	%	72	79	71	73	81
Extracted ISTD ¹³ C ₅ PFNA	%	79	83	72	79	84
Extracted ISTD ¹³ C ₂ PFDA	%	78	88	80	84	86
Extracted ISTD ¹³ C ₂ PFUnDA	%	81	93	86	83	92
Extracted ISTD ¹³ C ₂ PFDoDA	%	75	88	71	77	81
Extracted ISTD ¹³ C ₂ PFTeDA	%	48	81	44	110	116
Extracted ISTD ¹³ C ₂ 4:2FTS	%	74	81	74	78	85
Extracted ISTD ¹³ C ₂ 6:2FTS	%	74	78	71	77	80
Extracted ISTD ¹³ C ₂ 8:2FTS	%	77	96	80	84	89
Extracted ISTD ¹³ C ₈ FOSA	%	76	81	74	79	84
Extracted ISTD d ₃ N MeFOSA	%	59	71	59	62	75
Extracted ISTD d ₅ N EtFOSA	%	53	69	56	59	73
Extracted ISTD d ₇ N MeFOSE	%	75	80	70	73	85
Extracted ISTD d ₉ N EtFOSE	%	66	87	69	77	91
Extracted ISTD d ₃ N MeFOSAA	%	68	65	67	72	75
Extracted ISTD d ₅ N EtFOSAA	%	69	83	72	74	82
Total Positive PFHxS & PFOS	µg/kg	0.4	<0.1	0.2	<0.1	0.4
Total Positive PFOS & PFOA	µg/kg	0.3	<0.1	0.2	<0.1	0.4
Total Positive PFAS	µg/kg	0.4	<0.1	0.2	<0.1	0.4

PFAS in Soil Extended				
Our Reference		254436-43	254436-44	254436-54
Your Reference	UNITS	SS5-02	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment
Date prepared	-	15/12/2020	15/12/2020	15/12/2020
Date analysed	-	16/12/2020	16/12/2020	16/12/2020
Perfluorobutanesulfonic acid	µg/kg	<0.1	<0.1	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1	<0.1	<0.1
Perfluorohexanesulfonic acid	µg/kg	<0.1	<0.1	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	0.3
Perfluorodecanesulfonic acid	µg/kg	<0.2	<0.2	<0.2
Perfluorobutanoic acid	µg/kg	<0.2	<0.2	<0.2
Perfluoropentanoic acid	µg/kg	<0.2	<0.2	<0.2
Perfluorohexanoic acid	µg/kg	<0.1	<0.1	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1
Perfluorononanoic acid	µg/kg	<0.1	<0.1	<0.1
Perfluorodecanoic acid	µg/kg	<0.5	<0.5	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5	<0.5	<0.5
Perfluorododecanoic acid	µg/kg	<0.5	<0.5	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5	<0.5	<0.5
Perfluorotetradecanoic acid	µg/kg	<5	<5	<5
4:2 FTS	µg/kg	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2
10:2 FTS	µg/kg	<0.2	<0.2	<0.2
Perfluorooctane sulfonamide	µg/kg	<1	<1	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1	<1	<1
N-Ethyl perfluorooctanesulfonamide	µg/kg	<1	<1	<1
N-Me perfluorooctanesulfonamide -oethanol	µg/kg	<1	<1	<1
N-Et perfluorooctanesulfonamide -oethanol	µg/kg	<5	<5	<5
MePerfluorooctanesulfonamide acetic acid	µg/kg	<0.2	<0.2	<0.2
EtPerfluorooctanesulfonamide acetic acid	µg/kg	<0.2	<0.2	<0.2
Surrogate ¹³ C ₈ PFOS	%	107	103	105
Surrogate ¹³ C ₂ PFOA	%	100	103	110
Extracted ISTD ¹³ C ₃ PFBS	%	84	89	86
Extracted ISTD ¹⁸ O ₂ PFHxS	%	81	82	81
Extracted ISTD ¹³ C ₄ PFOS	%	77	82	82
Extracted ISTD ¹³ C ₄ PFBA	%	74	74	75

PFAS in Soil Extended				
Our Reference		254436-43	254436-44	254436-54
Your Reference	UNITS	SS5-02	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment
Extracted ISTD ¹³ C ₃ PFPeA	%	82	82	83
Extracted ISTD ¹³ C ₂ PFHxA	%	79	82	82
Extracted ISTD ¹³ C ₄ PFHpA	%	81	80	83
Extracted ISTD ¹³ C ₄ PFOA	%	79	81	78
Extracted ISTD ¹³ C ₅ PFNA	%	80	81	83
Extracted ISTD ¹³ C ₂ PFDA	%	83	79	85
Extracted ISTD ¹³ C ₂ PFUnDA	%	86	86	87
Extracted ISTD ¹³ C ₂ PFDoDA	%	80	79	85
Extracted ISTD ¹³ C ₂ PFTeDA	%	87	89	117
Extracted ISTD ¹³ C ₂ 4:2FTS	%	80	77	79
Extracted ISTD ¹³ C ₂ 6:2FTS	%	74	82	76
Extracted ISTD ¹³ C ₂ 8:2FTS	%	86	82	83
Extracted ISTD ¹³ C ₈ FOSA	%	79	79	80
Extracted ISTD d ₃ N MeFOSA	%	68	66	69
Extracted ISTD d ₅ N EtFOSA	%	63	63	65
Extracted ISTD d ₇ N MeFOSE	%	73	81	75
Extracted ISTD d ₉ N EtFOSE	%	80	79	78
Extracted ISTD d ₃ N MeFOSAA	%	74	76	79
Extracted ISTD d ₅ N EtFOSAA	%	75	79	75
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	0.3
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	0.3
Total Positive PFAS	µg/kg	<0.1	<0.1	0.3

Miscellaneous Inorg - soil						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	17/12/2020	17/12/2020	17/12/2020	17/12/2020	17/12/2020
Date analysed	-	22/12/2020	22/12/2020	22/12/2020	22/12/2020	22/12/2020
Total Organic Carbon by Combustion	mg/kg	500	1,000	700	900	600
Clay in soils <2µm *	% (w/w)	<1	<1	[NA]	1	<1

Miscellaneous Inorg - soil						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	17/12/2020	17/12/2020	17/12/2020	17/12/2020	17/12/2020
Date analysed	-	22/12/2020	22/12/2020	22/12/2020	22/12/2020	22/12/2020
Total Organic Carbon by Combustion	mg/kg	1,100	1,800	1,400	15,000	8,800
Clay in soils <2µm *	% (w/w)	<1	[NA]	<1	3	7

Miscellaneous Inorg - soil						
Our Reference		254436-32	254436-33	254436-34	254436-42	254436-43
Your Reference	UNITS	SS10-01	SS10-02	SS10-03	SS5-01	SS5-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	17/12/2020	17/12/2020	17/12/2020	17/12/2020	17/12/2020
Date analysed	-	22/12/2020	22/12/2020	22/12/2020	22/12/2020	22/12/2020
Total Organic Carbon by Combustion	mg/kg	3,100	9,700	7,800	1,100	900
Clay in soils <2µm *	% (w/w)	1	6	2	<1	<1

Miscellaneous Inorg - soil			
Our Reference		254436-44	254436-54
Your Reference	UNITS	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020
Type of sample		Sediment	Sediment
Date prepared	-	17/12/2020	17/12/2020
Date analysed	-	22/12/2020	22/12/2020
Total Organic Carbon by Combustion	mg/kg	800	700
Clay in soils <2µm *	% (w/w)	<1	1

Part. Size Dist. (full)						
Our Reference		254436-1	254436-2	254436-11	254436-12	254436-13
Your Reference	UNITS	SS2-02	SS2-03	SS3-01	SS3-02	SS3-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
150.0mm	% passing	100	100	100	100	100
100.0mm	% passing	100	100	100	100	100
75.0mm	% passing	100	100	100	100	100
37.5mm	% passing	100	100	100	100	100
19.0mm	% passing	100	100	100	96	98
9.5mm	% passing	98	95	74	91	85
4.75mm	% passing	95	90	70	84	80
2.36mm	% passing	92	85	65	75	77
1.18mm	% passing	91	82	63	68	73
0.600mm	% passing	88	77	58	59	60
0.425mm	% passing	79	67	51	45	53
0.300mm	% passing	45	41	32	25	40
0.150mm	% passing	5	9	8	9	12
0.075mm	% passing	3	5	5	5	4

Part. Size Dist. (full)						
Our Reference		254436-22	254436-23	254436-24	254436-32	254436-33
Your Reference	UNITS	SS6-01	SS6-02	SS6-03	SS10-01	SS10-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
150.0mm	% passing	100	100	100	100	100
100.0mm	% passing	100	100	100	100	100
75.0mm	% passing	100	100	100	100	100
37.5mm	% passing	100	100	100	100	100
19.0mm	% passing	100	100	100	100	100
9.5mm	% passing	92	100	100	98	99
4.75mm	% passing	87	98	99	94	94
2.36mm	% passing	82	97	99	83	88
1.18mm	% passing	79	95	98	75	87
0.600mm	% passing	66	91	95	51	81
0.425mm	% passing	50	87	94	35	76
0.300mm	% passing	31	81	90	23	71
0.150mm	% passing	11	47	65	10	43
0.075mm	% passing	5	18	32	6	21

Part. Size Dist. (full)						
Our Reference		254436-34	254436-42	254436-43	254436-44	254436-54
Your Reference	UNITS	SS10-03	SS5-01	SS5-02	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
150.0mm	% passing	100	100	100	100	100
100.0mm	% passing	100	100	100	100	100
75.0mm	% passing	100	100	100	100	100
37.5mm	% passing	100	100	100	100	100
19.0mm	% passing	100	100	100	100	100
9.5mm	% passing	100	100	100	100	100
4.75mm	% passing	98	99	98	99	99
2.36mm	% passing	95	97	94	96	97
1.18mm	% passing	92	95	87	90	96
0.600mm	% passing	86	80	66	69	93
0.425mm	% passing	83	46	45	45	82
0.300mm	% passing	78	12	18	19	48
0.150mm	% passing	43	2	5	7	5
0.075mm	% passing	17	1	2	4	4

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

Moisture						
Our Reference		254436-1	254436-2	254436-4	254436-11	254436-12
Your Reference	UNITS	SS2-02	SS2-03	SS2Z	SS3-01	SS3-02
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Moisture	%	18	21	19	19	20

Moisture						
Our Reference		254436-13	254436-15	254436-22	254436-23	254436-24
Your Reference	UNITS	SS3-03	SS3Z	SS6-01	SS6-02	SS6-03
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Moisture	%	18	20	18	52	51

Moisture						
Our Reference		254436-26	254436-32	254436-33	254436-34	254436-42
Your Reference	UNITS	SS6Z	SS10-01	SS10-02	SS10-03	SS5-01
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Moisture	%	45	19	43	38	21

Moisture				
Our Reference		254436-43	254436-44	254436-54
Your Reference	UNITS	SS5-02	SS5-03	SS2-01
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment
Date prepared	-	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	15/12/2020	15/12/2020	15/12/2020
Moisture	%	21	23	20

sPOCAS field test						
Our Reference		254436-5	254436-6	254436-7	254436-8	254436-9
Your Reference	UNITS	SS2Z (ASS)	SS3-01 (ASS)	SS3-02 (ASS)	SS3-03 (ASS)	SS3-04 (ASS)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Date analysed	-	10/12/2020	10/12/2020	10/12/2020	10/12/2020	10/12/2020
pH _F (field pH test)*	pH Units	8.4	8.2	8.4	8.4	8.2
pHFOX (field peroxide test)*	pH Units	6.9	7.6	6.4	6.4	6.4
Reaction Rate*	-	Medium	Extreme	High	Medium	Medium

sPOCAS field test						
Our Reference		254436-10	254436-16	254436-17	254436-18	254436-19
Your Reference	UNITS	SS3-05 (ASS)	SS3Z (ASS)	SS6-01 (ASS)	SS6-02 (ASS)	SS6-03 (ASS)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Date analysed	-	10/12/2020	10/12/2020	10/12/2020	10/12/2020	10/12/2020
pH _F (field pH test)*	pH Units	8.2	8.4	7.9	7.9	7.5
pHFOX (field peroxide test)*	pH Units	7.2	6.4	6.1	6.1	6.1
Reaction Rate*	-	High	Medium	High	High	High

sPOCAS field test						
Our Reference		254436-20	254436-21	254436-27	254436-28	254436-29
Your Reference	UNITS	SS6-04 (ASS)	SS6-05 (ASS)	SS10-01 (ASS)	SS10-02 (ASS)	SS10-03 (ASS)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Date analysed	-	10/12/2020	10/12/2020	10/12/2020	10/12/2020	10/12/2020
pH _F (field pH test)*	pH Units	7.9	7.8	7.8	8.0	8.1
pHFOX (field peroxide test)*	pH Units	6.1	6.1	7.3	6.2	6.2
Reaction Rate*	-	High	High	High	High	Medium

sPOCAS field test						
Our Reference		254436-30	254436-31	254436-36	254436-37	254436-38
Your Reference	UNITS	SS10-04 (ASS)	SS10-05 (ASS)	SS5-01 (ASS)	SS5-02 (ASS)	SS5-03 (ASS)
Date Sampled		09/12/2020	09/12/2020	08/12/2020	08/12/2020	08/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Date analysed	-	10/12/2020	10/12/2020	10/12/2020	10/12/2020	10/12/2020
pH _F (field pH test)*	pH Units	7.9	8.0	8.0	8.1	8.1
pHFOX (field peroxide test)*	pH Units	6.2	6.3	6.5	6.6	6.6
Reaction Rate*	-	Medium	Medium	High	Medium	Low

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

sPOCAS field test						
Our Reference		254436-39	254436-40	254436-41	254436-49	254436-50
Your Reference	UNITS	SS5-04 (ASS)	SS5-05 (ASS)	SS5-06 (ASS)	SS2-01 (ASS)	SS2-02 (ASS)
Date Sampled		08/12/2020	08/12/2020	08/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Date analysed	-	10/12/2020	10/12/2020	10/12/2020	10/12/2020	10/12/2020
pH _F (field pH test)*	pH Units	7.9	8.2	8.3	8.0	8.4
pHFOX (field peroxide test)*	pH Units	6.6	6.6	6.6	6.5	6.6
Reaction Rate*	-	Low	Low	Low	Medium	Low

sPOCAS field test				
Our Reference		254436-51	254436-52	254436-53
Your Reference	UNITS	SS2-03 (ASS)	SS2-04 (ASS)	SS2-05 (ASS)
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment
Date prepared	-	09/12/2020	09/12/2020	09/12/2020
Date analysed	-	10/12/2020	10/12/2020	10/12/2020
pH _F (field pH test)*	pH Units	8.2	8.3	8.3
pHFOX (field peroxide test)*	pH Units	6.6	6.8	6.7
Reaction Rate*	-	Low	Medium	Low

Dissolved Metals in Water						
Our Reference		254436-3	254436-14	254436-25	254436-35	254436-45
Your Reference	UNITS	SS2 (Elutriate)	SS3 (Elutriate)	SS6 (Elutriate)	SS10 (Elutriate)	SS5 (Elutriate)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	18/12/2020	18/12/2020	18/12/2020	18/12/2020	18/12/2020
Date analysed	-	07/01/2021	07/01/2021	07/01/2021	07/01/2021	07/01/2021
Silver-Dissolved Ultra Low	mg/L	<0.00005	<0.00005	<0.00005	<0.00005	0.0001
Aluminium-Dissolved	mg/L	0.01	<0.01	0.02	<0.01	<0.01
Arsenic-Dissolved	mg/L	0.002	0.003	0.008	0.003	0.002
Cadmium-Dissolved	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0001
Cobalt-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Copper-Dissolved	mg/L	0.002	<0.001	<0.001	0.017	<0.001
Iron-Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury-Dissolved	mg/L	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Manganese-Dissolved	mg/L	<0.005	<0.005	0.027	<0.005	<0.005
Molybdenum-Dissolved	mg/L	0.015	0.036	0.17	0.022	0.034
Nickel-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Lead-Dissolved	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony-Dissolved	mg/L	<0.001	0.003	0.005	<0.001	0.003
Selenium-Dissolved	mg/L	<0.001	<0.001	0.001	<0.001	<0.001
Zinc-Dissolved	mg/L	0.004	0.004	0.001	0.007	0.002

Dissolved Metals in Water				
Our Reference		254436-46	254436-48	254436-55
Your Reference	UNITS	WR1	WB1	Elutriate Water
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Water	Water	Elutriate Water
Date prepared	-	18/12/2020	18/12/2020	18/12/2020
Date analysed	-	18/12/2020	18/12/2020	18/12/2020
Silver-Dissolved Ultra Low	mg/L	[NA]	[NA]	<0.00005
Silver-Dissolved	mg/L	<0.001	<0.001	[NA]
Aluminium-Dissolved	mg/L	<0.01	<0.01	<0.01
Arsenic-Dissolved	mg/L	<0.001	<0.001	0.002
Cadmium-Dissolved	mg/L	<0.0001	<0.0001	<0.0001
Cobalt-Dissolved	mg/L	<0.001	<0.001	<0.001
Chromium-Dissolved	mg/L	<0.001	<0.001	<0.001
Copper-Dissolved	mg/L	<0.001	<0.001	0.002
Iron-Dissolved	mg/L	<0.01	<0.01	<0.01
Mercury-Dissolved	mg/L	<0.00005	<0.00005	<0.00005
Manganese-Dissolved	mg/L	<0.005	<0.005	<0.005
Molybdenum-Dissolved	mg/L	<0.001	<0.001	0.012
Nickel-Dissolved	mg/L	<0.001	<0.001	<0.001
Lead-Dissolved	mg/L	<0.001	<0.001	<0.001
Antimony-Dissolved	mg/L	<0.001	<0.001	<0.001
Selenium-Dissolved	mg/L	<0.001	<0.001	<0.001
Zinc-Dissolved	mg/L	<0.001	<0.001	0.003

vTRH(C6-C10)/MBTEXN in water						
Our Reference		254436-3	254436-14	254436-25	254436-35	254436-45
Your Reference	UNITS	SS2 (Elutriate)	SS3 (Elutriate)	SS6 (Elutriate)	SS10 (Elutriate)	SS5 (Elutriate)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date analysed	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
TRH C ₆ -C ₁₀ less BTEX (F1)	µg/L	<10	<10	<10	<10	<10
MTBE	µg/L	<1	<1	<1	<1	<1
Benzene	µg/L	<1	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2	<2	<2
o-xylene	µg/L	<1	<1	<1	<1	<1
Naphthalene	µg/L	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	103	103	106	106	105
Surrogate toluene-d8	%	98	98	99	102	103
Surrogate 4-BFB	%	101	101	101	100	102

vTRH(C6-C10)/MBTEXN in water					
Our Reference		254436-46	254436-47	254436-48	254436-55
Your Reference	UNITS	WR1	WTB1	WB1	Elutriate Water
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Water	Water	Water	Elutriate Water
Date analysed	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10
TRH C ₆ -C ₁₀ less BTEX (F1)	µg/L	<10	<10	<10	<10
MTBE	µg/L	<1	<1	<1	<1
Benzene	µg/L	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2	<2
o-xylene	µg/L	<1	<1	<1	<1
Naphthalene	µg/L	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	99	100	99	97
Surrogate toluene-d8	%	96	95	95	95
Surrogate 4-BFB	%	100	98	99	101

svTRH(C10-C40) in water						
Our Reference		254436-3	254436-14	254436-25	254436-35	254436-45
Your Reference	UNITS	SS2 (Elutriate)	SS3 (Elutriate)	SS6 (Elutriate)	SS10 (Elutriate)	SS5 (Elutriate)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	08/01/2021	08/01/2021	08/01/2021	08/01/2021	08/01/2021
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆ less N (F2)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	80	92	86	70	96

svTRH(C10-C40) in water				
Our Reference		254436-46	254436-48	254436-55
Your Reference	UNITS	WR1	WB1	Elutriate Water
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Water	Water	Elutriate Water
Date extracted	-	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	14/12/2020	14/12/2020	14/12/2020
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50
TRH >C ₁₀ -C ₁₆ less N (F2)	µg/L	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100
Surrogate o-Terphenyl	%	81	83	83

PAHs in Water						
Our Reference		254436-3	254436-14	254436-25	254436-35	254436-45
Your Reference	UNITS	SS2 (Elutriate)	SS3 (Elutriate)	SS6 (Elutriate)	SS10 (Elutriate)	SS5 (Elutriate)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	16/12/2020	16/12/2020	16/12/2020	16/12/2020	16/12/2020
Date analysed	-	08/01/2021	08/01/2021	08/01/2021	08/01/2021	08/01/2021
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-D ₁₄	%	76	77	76	77	83

PAHs in Water				
Our Reference		254436-46	254436-48	254436-55
Your Reference	UNITS	WR1	WB1	Elutriate Water
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Water	Water	Elutriate Water
Date extracted	-	16/12/2020	16/12/2020	16/12/2020
Date analysed	-	18/12/2020	18/12/2020	18/12/2020
Naphthalene	µg/L	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-D ₁₄	%	89	73	79

Speciated Phenol in Water						
Our Reference		254436-3	254436-14	254436-25	254436-35	254436-45
Your Reference	UNITS	SS2 (Elutriate)	SS3 (Elutriate)	SS6 (Elutriate)	SS10 (Elutriate)	SS5 (Elutriate)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	16/12/2020	16/12/2020	16/12/2020	16/12/2020	16/12/2020
Date analysed	-	08/01/2021	08/01/2021	08/01/2021	08/01/2021	08/01/2021
Phenol	µg/L	<1	<1	1	<1	<1
2-Chlorophenol	µg/L	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	µg/L	<5	<5	<5	<5	<5
2-Methylphenol	µg/L	<1	<1	<1	<1	<1
3/4-Methylphenol	µg/L	<2	<2	<2	<2	<2
2-Nitrophenol	µg/L	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/L	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/L	<1	<1	<1	<1	<1
2,6-Dichlorophenol	µg/L	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	µg/L	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	µg/L	<1	<1	<1	<1	<1
2,4-Dinitrophenol	µg/L	<20	<20	<20	<20	<20
4-Nitrophenol	µg/L	<20	<20	<20	<20	<20
2,3,4,6-Tetrachlorophenol	µg/L	<1	<1	<1	<1	<1
2-Methyl-4,6-dinitrophenol	µg/L	<20	<20	<20	<20	<20
Pentachlorophenol	µg/L	<5	<5	<5	<5	<5
Surrogate Phenol-d ₆	%	71	72	77	76	80
Surrogate 2-fluorophenol	%	69	68	74	74	79

Speciated Phenol in Water				
Our Reference		254436-46	254436-48	254436-55
Your Reference	UNITS	WR1	WB1	Elutriate Water
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Water	Water	Elutriate Water
Date extracted	-	16/12/2020	16/12/2020	16/12/2020
Date analysed	-	18/12/2020	18/12/2020	18/12/2020
Phenol	µg/L	<1	<1	<1
2-Chlorophenol	µg/L	<1	<1	<1
4-Chloro-3-methylphenol	µg/L	<5	<5	<5
2-Methylphenol	µg/L	<1	<1	<1
3/4-Methylphenol	µg/L	<2	<2	<2
2-Nitrophenol	µg/L	<1	<1	<1
2,4-Dimethylphenol	µg/L	<1	<1	<1
2,4-Dichlorophenol	µg/L	<1	<1	<1
2,6-Dichlorophenol	µg/L	<1	<1	<1
2,4,5-Trichlorophenol	µg/L	<1	<1	<1
2,4,6-Trichlorophenol	µg/L	<1	<1	<1
2,4-Dinitrophenol	µg/L	<20	<20	<20
4-Nitrophenol	µg/L	<20	<20	<20
2,3,4,6-Tetrachlorophenol	µg/L	<1	<1	<1
2-Methyl-4,6-dinitrophenol	µg/L	<20	<20	<20
Pentachlorophenol	µg/L	<5	<5	<5
Surrogate Phenol-d ₆	%	67	58	63
Surrogate 2-fluorophenol	%	68	64	78

OCP in water			
Our Reference		254436-46	254436-48
Your Reference	UNITS	WR1	WB1
Date Sampled		09/12/2020	09/12/2020
Type of sample		Water	Water
Date extracted	-	16/12/2020	16/12/2020
Date analysed	-	18/12/2020	18/12/2020
Hexachlorobenzene (HCB)	µg/L	<0.2	<0.2
a-BHC	µg/L	<0.2	<0.2
b-BHC	µg/L	<0.2	<0.2
Lindane (g-BHC)	µg/L	<0.2	<0.2
d-BHC	µg/L	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2
g-Chlordane	µg/L	<0.2	<0.2
a-Chlordane	µg/L	<0.2	<0.2
a-Endosulphan	µg/L	<0.2	<0.2
p,p'-DDE	µg/L	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2
p,p'-DDD	µg/L	<0.2	<0.2
b-Endosulphan	µg/L	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2
p,p'-DDT	µg/L	<0.2	<0.2
Endrin Ketone	µg/L	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2
Surrogate 2-chlorophenol-d4	%	81	72

Trace Level OCP in water						
Our Reference		254436-3	254436-14	254436-25	254436-35	254436-45
Your Reference	UNITS	SS2 (Elutriate)	SS3 (Elutriate)	SS6 (Elutriate)	SS10 (Elutriate)	SS5 (Elutriate)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	16/12/2020	16/12/2020	16/12/2020	16/12/2020	16/12/2020
Date analysed	-	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021
Hexachlorobenzene (HCB)	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
a-BHC (ANZECC marine)	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Lindane (g-BHC)	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
b-BHC (ANZECC marine)	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor*	µg/L	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
d-BHC (ANZECC marine)	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Aldrin	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor Epoxide	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
g-Chlordane	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
a-Chlordane	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
a-Endosulfan	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
pp-DDE	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Dieldrin	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
pp-DDD	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
b-Endosulfan	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
pp-DDT*	µg/L	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Endosulfan Sulphate	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Methoxychlor	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Mirex	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Surrogate 2-chlorophenol-d4	%	99	99	99	96	94

Trace Level OCP in water		
Our Reference		254436-55
Your Reference	UNITS	Elutriate Water
Date Sampled		09/12/2020
Type of sample		Elutriate Water
Date extracted	-	16/12/2020
Date analysed	-	12/01/2021
Hexachlorobenzene (HCB)	µg/L	<0.001
a-BHC (ANZECC marine)	µg/L	<0.001
Lindane (g-BHC)	µg/L	<0.001
b-BHC (ANZECC marine)	µg/L	<0.001
Heptachlor*	µg/L	<0.0004
d-BHC (ANZECC marine)	µg/L	<0.001
Aldrin	µg/L	<0.001
Heptachlor Epoxide	µg/L	<0.001
g-Chlordane	µg/L	<0.001
a-Chlordane	µg/L	<0.001
a-Endosulfan	µg/L	<0.002
pp-DDE	µg/L	<0.001
Dieldrin	µg/L	<0.001
Endrin	µg/L	<0.001
pp-DDD	µg/L	<0.001
b-Endosulfan	µg/L	<0.002
pp-DDT*	µg/L	<0.0004
Endosulfan Sulphate	µg/L	<0.001
Methoxychlor	µg/L	<0.001
Mirex	µg/L	<0.002
Surrogate 2-chlorophenol-d4	%	84

Organotin Compounds in Water						
Our Reference		254436-3	254436-14	254436-25	254436-35	254436-45
Your Reference	UNITS	SS2 (Elutriate)	SS3 (Elutriate)	SS6 (Elutriate)	SS10 (Elutriate)	SS5 (Elutriate)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date extracted	-	15/12/2020	15/12/2020	15/12/2020	15/12/2020	15/12/2020
Date analysed	-	11/01/2021	11/01/2021	11/01/2021	11/01/2021	11/01/2021
Monobutyltin as Sn	µg Sn/L	<0.020	<0.020	<0.020	<0.020	<0.020
Dibutyltin as Sn	µg Sn/L	<0.002	<0.002	<0.002	<0.002	<0.002
Tributyltin as Sn	µg Sn/L	<0.002	<0.002	<0.002	<0.002	<0.002
Surrogate Triphenyltin	%	100	100	100	100	100

Organotin Compounds in Water				
Our Reference		254436-46	254436-48	254436-55
Your Reference	UNITS	WR1	WB1	Elutriate Water
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Water	Water	Elutriate Water
Date extracted	-	15/12/2020	15/12/2020	15/12/2020
Date analysed	-	17/12/2020	17/12/2020	11/01/2021
Monobutyltin as Sn	µg Sn/L	<0.020	<0.020	<0.020
Dibutyltin as Sn	µg Sn/L	<0.002	<0.002	<0.002
Tributyltin as Sn	µg Sn/L	<0.002	<0.002	<0.002
Surrogate Triphenyltin	%	100	100	89

PFAS in Elutriate TRACE Extended						
Our Reference		254436-3	254436-14	254436-25	254436-35	254436-45
Your Reference	UNITS	SS2 (Elutriate)	SS3 (Elutriate)	SS6 (Elutriate)	SS10 (Elutriate)	SS5 (Elutriate)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Date prepared	-	18/12/2020	18/12/2020	18/12/2020	18/12/2020	18/12/2020
Date analysed	-	21/12/2020	21/12/2020	21/12/2020	21/12/2020	21/12/2020
Perfluorobutanesulfonic acid	µg/L	0.0005	0.0005	0.0009	0.0006	0.002
Perfluoropentanesulfonic acid	µg/L	<0.001	<0.001	<0.001	<0.001	0.004
Perfluorohexanesulfonic acid	µg/L	0.0026	0.0028	0.0046	0.0030	0.13
Perfluoroheptanesulfonic acid	µg/L	<0.001	<0.001	<0.001	<0.001	0.010
Perfluorooctanesulfonate PFOS	µg/L	0.010	0.0060	0.0079	0.0084	0.24
Perfluorodecanesulfonic acid	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Perfluorobutanoic acid	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Perfluoropentanoic acid	µg/L	<0.002	<0.002	0.002	<0.002	0.003
Perfluorohexanoic acid	µg/L	0.002	0.002	0.002	0.002	0.002
Perfluoroheptanoic acid	µg/L	0.002	0.002	0.002	0.002	0.003
Perfluorooctanoic acid PFOA	µg/L	0.001	0.0009	0.0020	0.001	0.0075
Perfluorononanoic acid	µg/L	<0.001	<0.001	<0.001	<0.001	0.006
Perfluorodecanoic acid	µg/L	<0.002	<0.002	<0.002	<0.002	0.007
Perfluoroundecanoic acid	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Perfluorododecanoic acid	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorotetradecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
4:2 FTS	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
6:2 FTS	µg/L	<0.0004	<0.0004	<0.0004	<0.0004	0.002
8:2 FTS	µg/L	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
10:2 FTS	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Perfluorooctane sulfonamide	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
N-Methyl perfluorooctane sulfonamide	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfonamide	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
N-Me perfluorooctanesulfonamide -oethanol	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamide -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
MePerfluorooctanesulfonamide acetic acid	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
EtPerfluorooctanesulfonamide acetic acid	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Surrogate ¹³ C ₈ PFOS	%	104	105	94	98	98
Surrogate ¹³ C ₂ PFOA	%	91	93	94	89	91
Extracted ISTD ¹³ C ₃ PFBS	%	88	92	83	84	87
Extracted ISTD ¹⁸ O ₂ PFHxS	%	84	82	85	84	87
Extracted ISTD ¹³ C ₄ PFOS	%	54	55	62	61	78

PFAS in Elutriate TRACE Extended						
Our Reference		254436-3	254436-14	254436-25	254436-35	254436-45
Your Reference	UNITS	SS2 (Elutriate)	SS3 (Elutriate)	SS6 (Elutriate)	SS10 (Elutriate)	SS5 (Elutriate)
Date Sampled		09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020
Type of sample		Sediment	Sediment	Sediment	Sediment	Sediment
Extracted ISTD ¹³ C ₄ PFBA	%	87	86	83	85	87
Extracted ISTD ¹³ C ₃ PFPeA	%	88	87	83	85	86
Extracted ISTD ¹³ C ₂ PFHxA	%	92	90	88	92	89
Extracted ISTD ¹³ C ₄ PFHpA	%	86	90	90	87	88
Extracted ISTD ¹³ C ₄ PFOA	%	85	87	86	87	90
Extracted ISTD ¹³ C ₅ PFNA	%	80	83	81	82	72
Extracted ISTD ¹³ C ₂ PFDA	%	55	58	61	62	58
Extracted ISTD ¹³ C ₂ PFUnDA	%	45	50	50	51	51
Extracted ISTD ¹³ C ₂ PFDoDA	%	36	39	46	40	47
Extracted ISTD ¹³ C ₂ PFTeDA	%	51	54	57	51	62
Extracted ISTD ¹³ C ₂ 4:2FTS	%	125	125	128	124	129
Extracted ISTD ¹³ C ₂ 6:2FTS	%	95	101	100	88	93
Extracted ISTD ¹³ C ₂ 8:2FTS	%	72	76	78	84	72
Extracted ISTD ¹³ C ₈ FOSA	%	46	48	50	53	52
Extracted ISTD d ₃ N MeFOSA	%	#	22	24	24	24
Extracted ISTD d ₅ N EtFOSA	%	#	23	25	25	27
Extracted ISTD d ₇ N MeFOSE	%	35	44	43	46	47
Extracted ISTD d ₉ N EtFOSE	%	36	40	44	43	47
Extracted ISTD d ₃ N MeFOSAA	%	46	52	54	58	56
Extracted ISTD d ₅ N EtFOSAA	%	45	45	56	54	56
Total Positive PFHxS & PFOS	µg/L	0.013	0.0088	0.012	0.011	0.37
Total Positive PFOS & PFOA	µg/L	0.011	0.0069	0.0099	0.0094	0.25
Total Positive PFAS	µg/L	0.018	0.014	0.021	0.017	0.42

PFAS in Elutriate TRACE Extended		
Our Reference		254436-55
Your Reference	UNITS	Elutriate Water
Date Sampled		09/12/2020
Type of sample		Elutriate Water
Date prepared	-	18/12/2020
Date analysed	-	21/12/2020
Perfluorobutanesulfonic acid	µg/L	0.0007
Perfluoropentanesulfonic acid	µg/L	<0.001
Perfluorohexanesulfonic acid	µg/L	0.0028
Perfluoroheptanesulfonic acid	µg/L	<0.001
Perfluorooctanesulfonate PFOS	µg/L	0.0042
Perfluorodecanesulfonic acid	µg/L	<0.002
Perfluorobutanoic acid	µg/L	<0.002
Perfluoropentanoic acid	µg/L	<0.002
Perfluorohexanoic acid	µg/L	0.002
Perfluoroheptanoic acid	µg/L	0.002
Perfluorooctanoic acid PFOA	µg/L	0.0009
Perfluorononanoic acid	µg/L	<0.001
Perfluorodecanoic acid	µg/L	<0.002
Perfluoroundecanoic acid	µg/L	<0.002
Perfluorododecanoic acid	µg/L	<0.005
Perfluorotridecanoic acid	µg/L	<0.01
Perfluorotetradecanoic acid	µg/L	<0.05
4:2 FTS	µg/L	<0.001
6:2 FTS	µg/L	<0.0004
8:2 FTS	µg/L	<0.0004
10:2 FTS	µg/L	<0.002
Perfluorooctane sulfonamide	µg/L	<0.01
N-Methyl perfluorooctane sulfonamide	µg/L	<0.005
N-Ethyl perfluorooctanesulfonamide	µg/L	<0.01
N-Me perfluorooctanesulfonamide -oethanol	µg/L	<0.005
N-Et perfluorooctanesulfonamide -oethanol	µg/L	<0.05
MePerfluorooctanesulfonamide acetic acid	µg/L	<0.002
EtPerfluorooctanesulfonamide acetic acid	µg/L	<0.002
Surrogate ¹³ C ₈ PFOS	%	97
Surrogate ¹³ C ₂ PFOA	%	91
Extracted ISTD ¹³ C ₃ PFBS	%	92
Extracted ISTD ¹⁸ O ₂ PFHxS	%	80
Extracted ISTD ¹³ C ₄ PFOS	%	60
Extracted ISTD ¹³ C ₄ PFBA	%	95

PFAS in Elutriate TRACE Extended		
Our Reference		254436-55
Your Reference	UNITS	Elutriate Water
Date Sampled		09/12/2020
Type of sample		Elutriate Water
Extracted ISTD ¹³ C ₃ PFPeA	%	96
Extracted ISTD ¹³ C ₂ PFHxA	%	97
Extracted ISTD ¹³ C ₄ PFHpA	%	91
Extracted ISTD ¹³ C ₄ PFOA	%	88
Extracted ISTD ¹³ C ₅ PFNA	%	83
Extracted ISTD ¹³ C ₂ PFDA	%	61
Extracted ISTD ¹³ C ₂ PFUnDA	%	51
Extracted ISTD ¹³ C ₂ PFDoDA	%	43
Extracted ISTD ¹³ C ₂ PFTeDA	%	61
Extracted ISTD ¹³ C ₂ 4:2FTS	%	105
Extracted ISTD ¹³ C ₂ 6:2FTS	%	97
Extracted ISTD ¹³ C ₂ 8:2FTS	%	66
Extracted ISTD ¹³ C ₈ FOSA	%	56
Extracted ISTD d ₃ N MeFOSA	%	35
Extracted ISTD d ₅ N EtFOSA	%	36
Extracted ISTD d ₇ N MeFOSE	%	51
Extracted ISTD d ₉ N EtFOSE	%	50
Extracted ISTD d ₃ N MeFOSAA	%	55
Extracted ISTD d ₅ N EtFOSAA	%	51
Total Positive PFHxS & PFOS	µg/L	0.0070
Total Positive PFOS & PFOA	µg/L	0.0051
Total Positive PFAS	µg/L	0.013

PFAS in Waters Extended				
Our Reference		254436-46	254436-47	254436-48
Your Reference	UNITS	WR1	WTB1	WB1
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Water	Water	Water
Date prepared	-	14/12/2020	14/12/2020	14/12/2020
Date analysed	-	14/12/2020	14/12/2020	14/12/2020
Perfluorobutanesulfonic acid	µg/L	<0.01	<0.01	<0.01
Perfluoropentanesulfonic acid	µg/L	<0.01	<0.01	<0.01
Perfluorohexanesulfonic acid	µg/L	<0.01	<0.01	<0.01
Perfluoroheptanesulfonic acid	µg/L	<0.01	<0.01	<0.01
Perfluorooctanesulfonate PFOS	µg/L	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid	µg/L	<0.02	<0.02	<0.02
Perfluorobutanoic acid	µg/L	<0.02	<0.02	<0.02
Perfluoropentanoic acid	µg/L	<0.02	<0.02	<0.02
Perfluorohexanoic acid	µg/L	<0.01	<0.01	<0.01
Perfluoroheptanoic acid	µg/L	<0.01	<0.01	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01	<0.01
Perfluorononanoic acid	µg/L	<0.01	<0.01	<0.01
Perfluorodecanoic acid	µg/L	<0.02	<0.02	<0.02
Perfluoroundecanoic acid	µg/L	<0.02	<0.02	<0.02
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.01	<0.01	<0.01
6:2 FTS	µg/L	<0.01	<0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02	<0.02
10:2 FTS	µg/L	<0.02	<0.02	<0.02
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfonamide	µg/L	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamide -oethanol	µg/L	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamide -oethanol	µg/L	<0.5	<0.5	<0.5
MePerfluorooctanesulfonamide acetic acid	µg/L	<0.02	<0.02	<0.02
EtPerfluorooctanesulfonamide acetic acid	µg/L	<0.02	<0.02	<0.02
Surrogate ¹³ C ₈ PFOS	%	108	108	102
Surrogate ¹³ C ₂ PFOA	%	94	104	97
Extracted ISTD ¹³ C ₃ PFBS	%	99	101	99
Extracted ISTD ¹⁸ O ₂ PFHxS	%	104	103	104
Extracted ISTD ¹³ C ₄ PFOS	%	87	73	89
Extracted ISTD ¹³ C ₄ PFBA	%	114	111	111

PFAS in Waters Extended				
Our Reference		254436-46	254436-47	254436-48
Your Reference	UNITS	WR1	WTB1	WB1
Date Sampled		09/12/2020	09/12/2020	09/12/2020
Type of sample		Water	Water	Water
Extracted ISTD ¹³ C ₃ PFPeA	%	99	99	99
Extracted ISTD ¹³ C ₂ PFHxA	%	103	100	99
Extracted ISTD ¹³ C ₄ PFHpA	%	112	111	112
Extracted ISTD ¹³ C ₄ PFOA	%	120	110	116
Extracted ISTD ¹³ C ₅ PFNA	%	132	116	128
Extracted ISTD ¹³ C ₂ PFDA	%	121	79	120
Extracted ISTD ¹³ C ₂ PFUnDA	%	121	57	120
Extracted ISTD ¹³ C ₂ PFDoDA	%	91	73	95
Extracted ISTD ¹³ C ₂ PFTeDA	%	120	52	97
Extracted ISTD ¹³ C ₂ 4:2FTS	%	120	118	114
Extracted ISTD ¹³ C ₂ 6:2FTS	%	126	111	121
Extracted ISTD ¹³ C ₂ 8:2FTS	%	112	70	104
Extracted ISTD ¹³ C ₈ FOSA	%	113	98	111
Extracted ISTD d ₃ N MeFOSA	%	106	91	99
Extracted ISTD d ₅ N EtFOSA	%	99	75	87
Extracted ISTD d ₇ N MeFOSE	%	118	68	113
Extracted ISTD d ₉ N EtFOSE	%	138	64	128
Extracted ISTD d ₃ N MeFOSAA	%	115	78	115
Extracted ISTD d ₅ N EtFOSAA	%	117	76	115
Total Positive PFHxS & PFOS	µg/L	<0.01	<0.01	<0.01
Total Positive PFOS & PFOA	µg/L	<0.01	<0.01	<0.01
Total Positive PFAS	µg/L	<0.01	<0.01	<0.01

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

Method ID	Methodology Summary
1289.3.6.1	Methods of testing soils for engineering purposes - Soil classification tests - Determination of the particle size distribution of a soil - Standard method of analysis by sieving
Ext-054	Analysed by Envirolab Services Sydney, accreditation number 2901
INORG-008	Moisture content determined by heating at 105 deg C for a minimum of 12 hours.
INORG-063	pH- measured using pH meter and electrode. Soil is oxidised with Hydrogen Peroxide or extracted with water. Based on section H, Acid Sulfate Soils Laboratory Methods Guidelines, Version 2.1 - June 2004.
METALS-020	Determination of various metals by ICP-AES.
METALS-021	Determination of Mercury by Cold Vapour AAS. For urine samples total Mercury is determined, however, mercury in urine is almost entirely in the inorganic form (CDC).
METALS-022	Determination of various metals by ICP-MS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	For soil results:- 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore " Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM draft B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-025/026	Water extracts are derivatised and extracted. Soils are extracted with a mix of water and methanolic KOH solution, neutralised and then derivatised and further extracted. The extracts are analysed by GC-MSMS. Alternatively, analyse directly by HS-GC-MSMS.
Org-029	<p>Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3.</p> <p>Analysis is undertaken with LC-MS/MS.</p> <p>PFAS results include the sum of branched and linear isomers where applicable.</p> <p>Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components.</p> <p>Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.</p>

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Metals - soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-2
Date digested	-			14/12/2020	1	14/12/2020	14/12/2020		14/12/2020	14/12/2020
Date analysed	-			22/12/2020	1	22/12/2020	22/12/2020		22/12/2020	22/12/2020
Silver	mg/kg	1	METALS-020	<1	1	<1	<1	0	124	125
Aluminium	mg/kg	10	METALS-020	<10	1	460	560	20	108	*
Arsenic	mg/kg	2	METALS-020	<2	1	5	5	0	103	127
Cadmium	mg/kg	0.4	METALS-020	<0.4	1	<0.4	<0.4	0	101	94
Cobalt	mg/kg	1	METALS-020	<1	1	<1	<1	0	104	101
Chromium	mg/kg	1	METALS-020	<1	1	4	5	22	105	*
Copper	mg/kg	1	METALS-020	<1	1	2	2	0	107	127
Iron	mg/kg	10	METALS-020	<10	1	530	520	2	99	*
Mercury	mg/kg	0.1	METALS-021	<0.1	1	<0.1	<0.1	0	110	#
Manganese	mg/kg	1	METALS-020	<1	1	9	10	11	104	*
Molybdenum	mg/kg	1	METALS-020	<1	1	<1	<1	0	116	112
Nickel	mg/kg	1	METALS-020	<1	1	1	1	0	103	103
Lead	mg/kg	1	METALS-020	<1	1	4	4	0	108	110
Antimony	mg/kg	0.5	METALS-022	<0.5	1	<0.5	<0.5	0	114	119
Selenium	mg/kg	2	METALS-020	<2	1	<2	<2	0	99	109
Zinc	mg/kg	1	METALS-020	<1	1	2	2	0	106	*

QUALITY CONTROL: Metals - soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date digested	-			[NT]	32	14/12/2020	14/12/2020		[NT]	[NT]
Date analysed	-			[NT]	32	22/12/2020	22/12/2020		[NT]	[NT]
Silver	mg/kg	1	METALS-020	[NT]	32	<1	<1	0	[NT]	[NT]
Aluminium	mg/kg	10	METALS-020	[NT]	32	3500	3400	3	[NT]	[NT]
Arsenic	mg/kg	2	METALS-020	[NT]	32	9	8	12	[NT]	[NT]
Cadmium	mg/kg	0.4	METALS-020	[NT]	32	<0.4	<0.4	0	[NT]	[NT]
Cobalt	mg/kg	1	METALS-020	[NT]	32	1	1	0	[NT]	[NT]
Chromium	mg/kg	1	METALS-020	[NT]	32	8	6	29	[NT]	[NT]
Copper	mg/kg	1	METALS-020	[NT]	32	11	12	9	[NT]	[NT]
Iron	mg/kg	10	METALS-020	[NT]	32	9000	19000	71	[NT]	[NT]
Mercury	mg/kg	0.1	METALS-021	[NT]	32	0.2	0.4	67	[NT]	[NT]
Manganese	mg/kg	1	METALS-020	[NT]	32	43	43	0	[NT]	[NT]
Molybdenum	mg/kg	1	METALS-020	[NT]	32	2	2	0	[NT]	[NT]
Nickel	mg/kg	1	METALS-020	[NT]	32	2	3	40	[NT]	[NT]
Lead	mg/kg	1	METALS-020	[NT]	32	20	25	22	[NT]	[NT]
Antimony	mg/kg	0.5	METALS-022	[NT]	32	<0.5	<0.5	0	[NT]	[NT]
Selenium	mg/kg	2	METALS-020	[NT]	32	<2	<2	0	[NT]	[NT]
Zinc	mg/kg	1	METALS-020	[NT]	32	20	18	11	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: sTRH in Sediment (C10-C36)					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-2
Date extracted	-			14/12/2020	1	14/12/2020	14/12/2020		14/12/2020	14/12/2020
Date analysed	-			15/12/2020	1	15/12/2020	15/12/2020		15/12/2020	15/12/2020
TRH C ₁₀ - C ₁₄	mg/kg	25	Org-020	<25	1	<25	<25	0	90	85
TRH C ₁₅ - C ₂₈	mg/kg	25	Org-020	<25	1	<25	<25	0	82	84
TRH C ₂₉ - C ₃₆	mg/kg	25	Org-020	<25	1	<25	<25	0	73	76
TRH >C ₁₀ - C ₁₆	mg/kg	25	Org-020	<25	1	<25	<25	0	90	86
TRH >C ₁₆ - C ₃₄	mg/kg	25	Org-020	<25	1	<25	<25	0	80	82
TRH >C ₃₄ - C ₄₀	mg/kg	25	Org-020	<25	1	<25	<25	0	84	84

QUALITY CONTROL: sTRH in Sediment (C10-C36)					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	32	14/12/2020	14/12/2020		[NT]	[NT]
Date analysed	-			[NT]	32	15/12/2020	15/12/2020		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	25	Org-020	[NT]	32	<25	<25	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	25	Org-020	[NT]	32	<25	<25	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	25	Org-020	[NT]	32	45	32	34	[NT]	[NT]
TRH >C ₁₀ - C ₁₆	mg/kg	25	Org-020	[NT]	32	<25	<25	0	[NT]	[NT]
TRH >C ₁₆ - C ₃₄	mg/kg	25	Org-020	[NT]	32	37	28	28	[NT]	[NT]
TRH >C ₃₄ - C ₄₀	mg/kg	25	Org-020	[NT]	32	40	29	32	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: TRH in Sediment (C6-C9) + BTEX							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-2
Date extracted	-			14/12/2020	1	14/12/2020	14/12/2020		14/12/2020	14/12/2020
Date analysed	-			15/12/2020	1	15/12/2020	15/12/2020		15/12/2020	15/12/2020
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	1	<25	<25	0	85	81
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	1	<25	<25	0	85	81
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	92	87
Toluene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	85	81
Ethylbenzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	83	78
m+p-xylene	mg/kg	0.4	Org-023	<0.4	1	<0.4	<0.4	0	83	79
o-xylene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	84	80
Surrogate aaa-Trifluorotoluene	%		Org-023	91	1	80	78	3	89	83

QUALITY CONTROL: TRH in Sediment (C6-C9) + BTEX							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	32	14/12/2020	14/12/2020		[NT]	[NT]
Date analysed	-			[NT]	32	15/12/2020	15/12/2020		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	32	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	32	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.2	Org-023	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
Ethylbenzene	mg/kg	0.2	Org-023	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
m+p-xylene	mg/kg	0.4	Org-023	[NT]	32	<0.4	<0.4	0	[NT]	[NT]
o-xylene	mg/kg	0.2	Org-023	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	32	87	80	8	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-2
Date extracted	-			14/12/2020	1	14/12/2020	14/12/2020		14/12/2020	14/12/2020
Date analysed	-			15/12/2020	1	15/12/2020	15/12/2020		15/12/2020	15/12/2020
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	87
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	97
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	95
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	96
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	98
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	94
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	96	96
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-D ₁₄	%		Org-022/025	90	1	84	105	22	87	93

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	32	14/12/2020	14/12/2020		[NT]	[NT]
Date analysed	-			[NT]	32	15/12/2020	15/12/2020		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	32	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	32	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	32	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	32	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	32	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	32	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	32	0.2	0.1	67	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	32	0.2	0.2	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	32	0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	32	0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	32	0.3	<0.2	40	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	32	0.15	0.11	31	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	32	0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	32	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	32	0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-D ₁₄	%		Org-022/025	[NT]	32	97	92	5	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Speciated Phenols in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-2
Date extracted	-			14/12/2020	1	14/12/2020	14/12/2020		14/12/2020	14/12/2020
Date analysed	-			15/12/2020	1	15/12/2020	15/12/2020		15/12/2020	15/12/2020
Phenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	84	76
2-Chlorophenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	94	80
4-Chloro-3-methylphenol	mg/kg	5	Org-022/025	<5	1	<5	<5	0	[NT]	[NT]
2-Methylphenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	90	76
3/4-Methylphenol	mg/kg	0.4	Org-022/025	<0.4	1	<0.4	<0.4	0	[NT]	[NT]
2-Nitrophenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4-Dimethylphenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4-Dichlorophenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,6-Dichlorophenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	102	96
2,4,5-Trichlorophenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4,6-Trichlorophenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4-Dinitrophenol	mg/kg	4	Org-022/025	<4	1	<4	<4	0	[NT]	[NT]
4-Nitrophenol	mg/kg	4	Org-022/025	<4	1	<4	<4	0	[NT]	[NT]
2,3,4,6-Tetrachlorophenol	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2-Methyl-4,6-dinitrophenol	mg/kg	10	Org-022/025	<10	1	<10	<10	0	[NT]	[NT]
Pentachlorophenol	mg/kg	5	Org-022/025	<5	1	<5	<5	0	82	63
Surrogate Phenol-d ₆	%		Org-022/025	96	1	80	81	1	96	81
Surrogate 2-fluorophenol	%		Org-022/025	94	1	93	86	8	106	99

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Speciated Phenols in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	32	14/12/2020	14/12/2020		[NT]	[NT]
Date analysed	-			[NT]	32	15/12/2020	15/12/2020		[NT]	[NT]
Phenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
2-Chlorophenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
4-Chloro-3-methylphenol	mg/kg	5	Org-022/025	[NT]	32	<5	<5	0	[NT]	[NT]
2-Methylphenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
3/4-Methylphenol	mg/kg	0.4	Org-022/025	[NT]	32	<0.4	<0.4	0	[NT]	[NT]
2-Nitrophenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
2,4-Dimethylphenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
2,4-Dichlorophenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
2,6-Dichlorophenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
2,4,5-Trichlorophenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
2,4,6-Trichlorophenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
2,4-Dinitrophenol	mg/kg	4	Org-022/025	[NT]	32	<4	<4	0	[NT]	[NT]
4-Nitrophenol	mg/kg	4	Org-022/025	[NT]	32	<4	<4	0	[NT]	[NT]
2,3,4,6-Tetrachlorophenol	mg/kg	0.2	Org-022/025	[NT]	32	<0.2	<0.2	0	[NT]	[NT]
2-Methyl-4,6-dinitrophenol	mg/kg	10	Org-022/025	[NT]	32	<10	<10	0	[NT]	[NT]
Pentachlorophenol	mg/kg	5	Org-022/025	[NT]	32	<5	<5	0	[NT]	[NT]
Surrogate Phenol-d ₆	%		Org-022/025	[NT]	32	87	78	11	[NT]	[NT]
Surrogate 2-fluorophenol	%		Org-022/025	[NT]	32	96	80	18	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: OCP in Sediment (NAGD)				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-2
Date extracted	-			14/12/2020	1	14/12/2020	14/12/2020		14/12/2020	14/12/2020
Date analysed	-			18/12/2020	1	18/12/2020	18/12/2020		18/12/2020	18/12/2020
Hexachlorobenzene (HCB)	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
a-BHC	µg/kg	1	Org-022/025	<1	1	<1	<1	0	64	75
b-BHC	µg/kg	1	Org-022/025	<1	1	<1	<1	0	89	99
Lindane (g-BHC)	µg/kg	0.9	Org-022/025	<0.9	1	<0.9	<0.9	0	[NT]	[NT]
d-BHC	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Heptachlor	µg/kg	1	Org-022/025	<1	1	<1	<1	0	71	70
Aldrin	µg/kg	1	Org-022/025	<1	1	<1	<1	0	62	63
Heptachlor Epoxide	µg/kg	1	Org-022/025	<1	1	<1	<1	0	73	69
a-chlordane	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
g-Chlordane	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
a-endosulphan	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
p,p'-DDE	µg/kg	1	Org-022/025	<1	1	<1	<1	0	85	77
Dieldrin	µg/kg	1	Org-022/025	<1	1	<1	<1	0	72	75
Endrin	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
p,p'-DDD	µg/kg	1	Org-022/025	<1	1	<1	<1	0	67	85
o,p'-DDD	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
DDD	µg/kg	2	Org-022/025	<2	1	<2	<2	0	[NT]	[NT]
b-endosulphan	µg/kg	1	Org-022/025	<1	1	<2	<1	67	[NT]	[NT]
Endosulfan Sulphate	µg/kg	1	Org-022/025	<1	1	<1	<1	0	68	69
p,p'-DDT	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Methoxychlor	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Oxychlordane	µg/kg	1	Org-022/025	<1	1	<1	<1	0	[NT]	[NT]
Surrogate 2-chlorophenol-d4	%		Org-022/025	72	1	80	84	5	76	72

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: OCP in Sediment (NAGD)					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	32	14/12/2020	14/12/2020		[NT]	[NT]
Date analysed	-			[NT]	32	18/12/2020	18/12/2020		[NT]	[NT]
Hexachlorobenzene (HCB)	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
a-BHC	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
b-BHC	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Lindane (g-BHC)	µg/kg	0.9	Org-022/025	[NT]	32	<0.9	<0.9	0	[NT]	[NT]
d-BHC	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Heptachlor	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Aldrin	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Heptachlor Epoxide	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
a-chlordane	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
g-Chlordane	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
a-endosulphan	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
p,p'-DDE	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Dieldrin	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Endrin	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
p,p'-DDD	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
o,p'-DDD	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
DDD	µg/kg	2	Org-022/025	[NT]	32	<2	<2	0	[NT]	[NT]
b-endosulphan	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Endosulfan Sulphate	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
p,p'-DDT	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Methoxychlor	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Oxychlordane	µg/kg	1	Org-022/025	[NT]	32	<1	<1	0	[NT]	[NT]
Surrogate 2-chlorophenol-d4	%		Org-022/025	[NT]	32	74	80	8	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Organotin Compounds in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-23
Date extracted	-			14/12/2020	22	14/12/2020	14/12/2020		14/12/2020	14/12/2020
Date analysed	-			15/12/2020	22	15/12/2020	15/12/2020		15/12/2020	15/12/2020
Monobutyltin as Sn	µg Sn/kg	0.5	Org-025/026	<0.5	22	2	4	67	[NT]	[NT]
Dibutyltin as Sn	µg Sn/kg	0.5	Org-025/026	<0.5	22	0.7	2	96	[NT]	[NT]
Tributyltin as Sn	µg Sn/kg	0.5	Org-025/026	<0.5	22	0.6	2	108	[NT]	[NT]
Surrogate Triphenyltin	%		Org-025/026	100	22	98	98	0	102	92

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Soil Extended				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-2
Date prepared	-			15/12/2020	1	15/12/2020	15/12/2020		15/12/2020	15/12/2020
Date analysed	-			16/12/2020	1	15/12/2020	15/12/2020		16/12/2020	15/12/2020
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	102	105
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	108	99
Perfluorohexanesulfonic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	94	100
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	108	102
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	103	93
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	103	99
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	102	99
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	98	101
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	96	99
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	97	96
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	109	99
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	91	102
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	1	<0.5	<0.5	0	91	98
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	1	<0.5	<0.5	0	101	100
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	1	<0.5	<0.5	0	98	102
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	1	<0.5	<0.5	0	94	88
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	1	<5	<5	0	94	103
4:2 FTS	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	98	102
6:2 FTS	µg/kg	0.1	Org-029	<0.1	1	<0.1	<0.1	0	109	95
8:2 FTS	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	94	98
10:2 FTS	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	100	102
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	1	<1	<1	0	86	108
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	1	<1	<1	0	108	104
N-Ethyl perfluorooctanesulfon -amide	µg/kg	1	Org-029	<1	1	<1	<1	0	102	103
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	1	Org-029	<1	1	<1	<1	0	98	108
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	5	Org-029	<5	1	<5	<5	0	85	99
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	116	104
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	1	<0.2	<0.2	0	102	109
Surrogate ¹³ C ₈ PFOS	%		Org-029	107	1	100	98	2	104	104
Surrogate ¹³ C ₂ PFOA	%		Org-029	110	1	99	98	1	108	96
Extracted ISTD ¹³ C ₃ PFBS	%		Org-029	94	1	79	85	7	98	81

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Soil Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-2
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	92	1	83	82	1	96	84
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	89	1	86	83	4	99	85
Extracted ISTD ¹³ C ₄ PFBA	%		Org-029	88	1	85	85	0	93	83
Extracted ISTD ¹³ C ₃ PFPeA	%		Org-029	93	1	83	83	0	97	81
Extracted ISTD ¹³ C ₂ PFHxA	%		Org-029	91	1	87	85	2	97	84
Extracted ISTD ¹³ C ₄ PFHpA	%		Org-029	92	1	84	83	1	96	83
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	84	1	90	90	0	91	88
Extracted ISTD ¹³ C ₅ PFNA	%		Org-029	93	1	85	85	0	97	80
Extracted ISTD ¹³ C ₂ PFDA	%		Org-029	88	1	83	83	0	97	82
Extracted ISTD ¹³ C ₂ PFUnDA	%		Org-029	98	1	86	88	2	100	83
Extracted ISTD ¹³ C ₂ PFDoDA	%		Org-029	90	1	81	87	7	96	78
Extracted ISTD ¹³ C ₂ PFTeDA	%		Org-029	129	1	47	50	6	113	46
Extracted ISTD ¹³ C ₂ 4:2FTS	%		Org-029	94	1	78	72	8	97	72
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	92	1	75	71	5	95	66
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	100	1	66	63	5	109	57
Extracted ISTD ¹³ C ₈ FOSA	%		Org-029	88	1	76	77	1	94	74
Extracted ISTD d ₃ N MeFOSA	%		Org-029	79	1	63	64	2	92	60
Extracted ISTD d ₅ N EtFOSA	%		Org-029	83	1	56	58	4	92	52
Extracted ISTD d ₇ N MeFOSE	%		Org-029	102	1	82	86	5	104	77
Extracted ISTD d ₉ N EtFOSE	%		Org-029	99	1	76	73	4	106	70
Extracted ISTD d ₃ N MeFOSAA	%		Org-029	88	1	77	77	0	91	76

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Soil Extended						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-2
Extracted ISTD d ₅ N EtFOSAA	%		Org-029	90	1	74	77	4	91	69

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Soil Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	26	15/12/2020	15/12/2020		[NT]	[NT]
Date analysed	-			[NT]	26	16/12/2020	16/12/2020		[NT]	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	[NT]	26	<0.1	<0.1	0	[NT]	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	[NT]	26	<0.1	<0.1	0	[NT]	[NT]
Perfluorohexanesulfonic acid	µg/kg	0.1	Org-029	[NT]	26	0.1	<0.1	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	[NT]	26	<0.1	<0.1	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	26	0.3	0.3	0	[NT]	[NT]
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	[NT]	26	<0.2	<0.2	0	[NT]	[NT]
Perfluorobutanoic acid	µg/kg	0.2	Org-029	[NT]	26	<0.2	<0.2	0	[NT]	[NT]
Perfluoropentanoic acid	µg/kg	0.2	Org-029	[NT]	26	<0.2	<0.2	0	[NT]	[NT]
Perfluorohexanoic acid	µg/kg	0.1	Org-029	[NT]	26	<0.1	<0.1	0	[NT]	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	[NT]	26	<0.1	<0.1	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	26	<0.1	<0.1	0	[NT]	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	[NT]	26	<0.1	<0.1	0	[NT]	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	[NT]	26	<0.5	<0.5	0	[NT]	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	[NT]	26	<0.5	<0.5	0	[NT]	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	[NT]	26	<0.5	<0.5	0	[NT]	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	[NT]	26	<0.5	<0.5	0	[NT]	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	[NT]	26	<5	<5	0	[NT]	[NT]
4:2 FTS	µg/kg	0.1	Org-029	[NT]	26	<0.1	<0.1	0	[NT]	[NT]
6:2 FTS	µg/kg	0.1	Org-029	[NT]	26	<0.1	<0.1	0	[NT]	[NT]
8:2 FTS	µg/kg	0.2	Org-029	[NT]	26	<0.2	<0.2	0	[NT]	[NT]
10:2 FTS	µg/kg	0.2	Org-029	[NT]	26	<0.2	<0.2	0	[NT]	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	[NT]	26	<1	<1	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	[NT]	26	<1	<1	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/kg	1	Org-029	[NT]	26	<1	<1	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/kg	1	Org-029	[NT]	26	<1	<1	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/kg	5	Org-029	[NT]	26	<5	<5	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	[NT]	26	<0.2	<0.2	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	[NT]	26	<0.2	<0.2	0	[NT]	[NT]
Surrogate ¹³ C ₈ PFOS	%		Org-029	[NT]	26	106	103	3	[NT]	[NT]
Surrogate ¹³ C ₂ PFOA	%		Org-029	[NT]	26	106	103	3	[NT]	[NT]
Extracted ISTD ¹³ C ₃ PFBS	%		Org-029	[NT]	26	78	76	3	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Soil Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	[NT]	26	80	76	5	[NT]	[NT]
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	[NT]	26	71	74	4	[NT]	[NT]
Extracted ISTD ¹³ C ₄ PFBA	%		Org-029	[NT]	26	68	67	1	[NT]	[NT]
Extracted ISTD ¹³ C ₃ PFPeA	%		Org-029	[NT]	26	77	75	3	[NT]	[NT]
Extracted ISTD ¹³ C ₂ PFHxA	%		Org-029	[NT]	26	73	74	1	[NT]	[NT]
Extracted ISTD ¹³ C ₄ PFHpA	%		Org-029	[NT]	26	79	75	5	[NT]	[NT]
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	[NT]	26	72	74	3	[NT]	[NT]
Extracted ISTD ¹³ C ₅ PFNA	%		Org-029	[NT]	26	79	78	1	[NT]	[NT]
Extracted ISTD ¹³ C ₂ PFDA	%		Org-029	[NT]	26	78	77	1	[NT]	[NT]
Extracted ISTD ¹³ C ₂ PFUnDA	%		Org-029	[NT]	26	81	79	2	[NT]	[NT]
Extracted ISTD ¹³ C ₂ PFDoDA	%		Org-029	[NT]	26	75	70	7	[NT]	[NT]
Extracted ISTD ¹³ C ₂ PFTeDA	%		Org-029	[NT]	26	48	75	44	[NT]	[NT]
Extracted ISTD ¹³ C ₂ 4:2FTS	%		Org-029	[NT]	26	74	74	0	[NT]	[NT]
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	[NT]	26	74	70	6	[NT]	[NT]
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	[NT]	26	77	77	0	[NT]	[NT]
Extracted ISTD ¹³ C ₈ FOSA	%		Org-029	[NT]	26	76	75	1	[NT]	[NT]
Extracted ISTD d ₃ N MeFOSA	%		Org-029	[NT]	26	59	55	7	[NT]	[NT]
Extracted ISTD d ₅ N EtFOSA	%		Org-029	[NT]	26	53	51	4	[NT]	[NT]
Extracted ISTD d ₇ N MeFOSE	%		Org-029	[NT]	26	75	68	10	[NT]	[NT]
Extracted ISTD d ₉ N EtFOSE	%		Org-029	[NT]	26	66	71	7	[NT]	[NT]
Extracted ISTD d ₃ N MeFOSAA	%		Org-029	[NT]	26	68	68	0	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Soil Extended						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d ₅ N EtFOSAA	%		Org-029	[NT]	26	69	69	0	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Miscellaneous Inorg - soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			17/12/2020	1	17/12/2020	17/12/2020		17/12/2020	[NT]
Date analysed	-			22/12/2020	1	22/12/2020	22/12/2020		22/12/2020	[NT]
Total Organic Carbon by Combustion	mg/kg	100	Ext-054	<100	1	500	500	0	99	[NT]
Clay in soils <2µm *	% (w/w)	1	1289.3.6.1	<1	1	<1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorg - soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	32	17/12/2020	17/12/2020		[NT]	[NT]
Date analysed	-			[NT]	32	22/12/2020	22/12/2020		[NT]	[NT]
Total Organic Carbon by Combustion	mg/kg	100	Ext-054	[NT]	32	3100	3600	15	[NT]	[NT]
Clay in soils <2µm *	% (w/w)	1	1289.3.6.1	[NT]	32	1	[NT]		[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Moisture					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			14/12/2020	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Date analysed	-			15/12/2020	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Moisture	%	0.1	INORG-008	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: sPOCAS field test					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			09/12/2020	5	09/12/2020	09/12/2020		[NT]	[NT]
Date analysed	-			10/12/2020	5	10/12/2020	10/12/2020		[NT]	[NT]
pH _F (field pH test)*	pH Units		INORG-063	[NT]	5	8.4	8.4	0	[NT]	[NT]
pHFOX (field peroxide test)*	pH Units		INORG-063	[NT]	5	6.9	6.9	0	[NT]	[NT]

QUALITY CONTROL: sPOCAS field test					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	20	09/12/2020	09/12/2020		[NT]	[NT]
Date analysed	-			[NT]	20	10/12/2020	10/12/2020		[NT]	[NT]
pH _F (field pH test)*	pH Units		INORG-063	[NT]	20	7.9	7.8	1	[NT]	[NT]
pHFOX (field peroxide test)*	pH Units		INORG-063	[NT]	20	6.1	6.1	0	[NT]	[NT]

QUALITY CONTROL: sPOCAS field test					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	40	09/12/2020	09/12/2020		[NT]	[NT]
Date analysed	-			[NT]	40	10/12/2020	10/12/2020		[NT]	[NT]
pH _F (field pH test)*	pH Units		INORG-063	[NT]	40	8.2	8.2	0	[NT]	[NT]
pHFOX (field peroxide test)*	pH Units		INORG-063	[NT]	40	6.6	6.5	2	[NT]	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Dissolved Metals in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			18/12/2020	46	18/12/2020	18/12/2020		18/12/2020	[NT]
Date analysed	-			18/12/2020	46	18/12/2020	18/12/2020		18/12/2020	[NT]
Silver-Dissolved Ultra Low	mg/L	0.00005	METALS-022	<0.00005	[NT]	[NT]	[NT]	[NT]	96	[NT]
Silver-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	96	[NT]
Aluminium-Dissolved	mg/L	0.01	METALS-022	<0.01	46	<0.01	<0.01	0	96	[NT]
Arsenic-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	114	[NT]
Cadmium-Dissolved	mg/L	0.0001	METALS-022	<0.0001	46	<0.0001	<0.0001	0	107	[NT]
Cobalt-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	90	[NT]
Chromium-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	101	[NT]
Copper-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	92	[NT]
Iron-Dissolved	mg/L	0.01	METALS-022	<0.01	46	<0.01	<0.01	0	120	[NT]
Mercury-Dissolved	mg/L	0.00005	METALS-021	<0.00005	46	<0.00005	[NT]		90	[NT]
Manganese-Dissolved	mg/L	0.005	METALS-022	<0.005	46	<0.005	<0.005	0	102	[NT]
Molybdenum-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	99	[NT]
Nickel-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	92	[NT]
Lead-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	84	[NT]
Antimony-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	113	[NT]
Selenium-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	104	[NT]
Zinc-Dissolved	mg/L	0.001	METALS-022	<0.001	46	<0.001	<0.001	0	96	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: vTRH(C6-C10)/MBTEXN in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date analysed	-			14/12/2020	[NT]	[NT]	[NT]	[NT]	14/12/2020	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	103	[NT]
MTBE	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	103	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	106	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate 4-BFB	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: vTRH(C6-C10)/MBTEXN in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	14/12/2020	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	84	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	84	[NT]
Benzene	µg/L	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	87	[NT]
Toluene	µg/L	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	86	[NT]
Ethylbenzene	µg/L	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	83	[NT]
m+p-xylene	µg/L	2	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	82	[NT]
o-xylene	µg/L	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	82	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	105	[NT]
Surrogate toluene-d8	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-BFB	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: svTRH(C10-C40) in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-14
Date extracted	-			14/12/2020	[NT]	[NT]	[NT]	[NT]	14/12/2020	14/12/2020
Date analysed	-			14/12/2020	[NT]	[NT]	[NT]	[NT]	14/12/2020	14/12/2020
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	94	115
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	117
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	104
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	98	117
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	80	95
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	105
Surrogate o-Terphenyl	%		Org-020	86	[NT]	[NT]	[NT]	[NT]	81	90

QUALITY CONTROL: svTRH(C10-C40) in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	14/12/2020	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	08/01/2021	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	[NT]	[NT]	[NT]	[NT]	[NT]	115	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	[NT]	[NT]	[NT]	[NT]	[NT]	115	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	[NT]	[NT]	[NT]	[NT]	[NT]	118	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	[NT]	[NT]	[NT]	[NT]	[NT]	118	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	[NT]	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			16/12/2020	[NT]	[NT]	[NT]	[NT]	16/12/2020	[NT]
Date analysed	-			08/01/2021	[NT]	[NT]	[NT]	[NT]	08/01/2021	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-D ₁₄	%		Org-022/025	77	[NT]	[NT]	[NT]	[NT]	83	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Speciated Phenol in Water				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			16/12/2020	[NT]	[NT]	[NT]	[NT]	16/12/2020	[NT]
Date analysed	-			08/01/2021	[NT]	[NT]	[NT]	[NT]	08/01/2021	[NT]
Phenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	81	[NT]
2-Chlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
4-Chloro-3-methylphenol	µg/L	5	Org-022/025	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-Methylphenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
3/4-Methylphenol	µg/L	2	Org-022/025	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-Nitrophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-Dimethylphenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-Dichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,6-Dichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
2,4,5-Trichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4,6-Trichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-Dinitrophenol	µg/L	20	Org-022/025	<20	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-Nitrophenol	µg/L	20	Org-022/025	<20	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,3,4,6-Tetrachlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-Methyl-4,6-dinitrophenol	µg/L	20	Org-022/025	<20	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Pentachlorophenol	µg/L	5	Org-022/025	<5	[NT]	[NT]	[NT]	[NT]	76	[NT]
Surrogate Phenol-d ₆	%		Org-022/025	63	[NT]	[NT]	[NT]	[NT]	74	[NT]
Surrogate 2-fluorophenol	%		Org-022/025	64	[NT]	[NT]	[NT]	[NT]	70	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: OCP in water				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			16/12/2020	[NT]	[NT]	[NT]	[NT]	16/12/2020	[NT]
Date analysed	-			18/12/2020	[NT]	[NT]	[NT]	[NT]	18/12/2020	[NT]
Hexachlorobenzene (HCB)	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
a-BHC	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	96	[NT]
b-BHC	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	104	[NT]
Lindane (g-BHC)	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
d-BHC	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	101	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	99	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	102	[NT]
g-Chlordane	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
a-Chlordane	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
a-Endosulphan	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
p,p'-DDE	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	103	[NT]
Dieldrin	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	103	[NT]
Endrin	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
p,p'-DDD	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	115	[NT]
b-Endosulphan	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	108	[NT]
p,p'-DDT	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endrin Ketone	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-chlorophenol-d4	%		Org-022/025	80	[NT]	[NT]	[NT]	[NT]	77	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Trace Level OCP in water				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			16/12/2020	[NT]	[NT]	[NT]	[NT]	16/12/2020	[NT]
Date analysed	-			12/01/2021	[NT]	[NT]	[NT]	[NT]	12/01/2021	[NT]
Hexachlorobenzene (HCB)	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
a-BHC (ANZECC marine)	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	102	[NT]
Lindane (g-BHC)	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
b-BHC (ANZECC marine)	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	94	[NT]
Heptachlor*	µg/L	0.0004	Org-022/025	<0.0004	[NT]	[NT]	[NT]	[NT]	97	[NT]
d-BHC (ANZECC marine)	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	84	[NT]
Heptachlor Epoxide	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	94	[NT]
g-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
a-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
a-Endosulfan	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	103	[NT]
Dieldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	97	[NT]
Endrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	99	[NT]
b-Endosulfan	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT*	µg/L	0.0004	Org-022/025	<0.0004	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	91	[NT]
Methoxychlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Mirex	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-chlorophenol-d4	%		Org-022/025	94	[NT]	[NT]	[NT]	[NT]	100	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: Organotin Compounds in Water							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			15/12/2020	[NT]	[NT]	[NT]	[NT]	15/12/2020	[NT]
Date analysed	-			17/12/2020	[NT]	[NT]	[NT]	[NT]	17/12/2020	[NT]
Monobutyltin as Sn	µg Sn/L	0.020	Org-025/026	<0.020	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibutyltin as Sn	µg Sn/L	0.002	Org-025/026	<0.002	[NT]	[NT]	[NT]	[NT]	108	[NT]
Tributyltin as Sn	µg Sn/L	0.002	Org-025/026	<0.002	[NT]	[NT]	[NT]	[NT]	88	[NT]
Surrogate Triphenyltin	%		Org-025/026	100	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: Organotin Compounds in Water							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	15/12/2020	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/01/2021	[NT]
Dibutyltin as Sn	µg Sn/L	0.002	Org-025/026	[NT]	[NT]	[NT]	[NT]	[NT]	91	[NT]
Tributyltin as Sn	µg Sn/L	0.002	Org-025/026	[NT]	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate Triphenyltin	%		Org-025/026	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Elutriate TRACE Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-14
Date prepared	-			18/12/2020	3	18/12/2020	18/12/2020		18/12/2020	18/12/2020
Date analysed	-			21/12/2020	3	21/12/2020	21/12/2020		21/12/2020	21/12/2020
Perfluorobutanesulfonic acid	µg/L	0.0004	Org-029	<0.0004	3	0.0005	0.0006	18	125	130
Perfluoropentanesulfonic acid	µg/L	0.001	Org-029	<0.001	3	<0.001	<0.001	0	109	114
Perfluorohexanesulfonic acid	µg/L	0.0002	Org-029	<0.0002	3	0.0026	0.0026	0	116	116
Perfluoroheptanesulfonic acid	µg/L	0.001	Org-029	<0.001	3	<0.001	<0.001	0	107	113
Perfluorooctanesulfonate PFOS	µg/L	0.0002	Org-029	<0.0002	3	0.010	0.0092	8	110	124
Perfluorodecanesulfonic acid	µg/L	0.002	Org-029	<0.002	3	<0.002	<0.002	0	82	104
Perfluorobutanoic acid	µg/L	0.002	Org-029	<0.002	3	<0.002	<0.002	0	101	101
Perfluoropentanoic acid	µg/L	0.002	Org-029	<0.002	3	<0.002	<0.002	0	121	126
Perfluorohexanoic acid	µg/L	0.0004	Org-029	<0.0004	3	0.002	0.002	0	98	96
Perfluoroheptanoic acid	µg/L	0.0004	Org-029	<0.0004	3	0.002	0.002	0	112	109
Perfluorooctanoic acid PFOA	µg/L	0.0002	Org-029	<0.0002	3	0.001	0.001	0	105	109
Perfluorononanoic acid	µg/L	0.001	Org-029	<0.001	3	<0.001	<0.001	0	94	97
Perfluorodecanoic acid	µg/L	0.002	Org-029	<0.002	3	<0.002	<0.002	0	103	118
Perfluoroundecanoic acid	µg/L	0.002	Org-029	<0.002	3	<0.002	<0.002	0	104	127
Perfluorododecanoic acid	µg/L	0.005	Org-029	<0.005	3	<0.005	<0.005	0	108	139
Perfluorotridecanoic acid	µg/L	0.01	Org-029	<0.01	3	<0.01	<0.01	0	107	139
Perfluorotetradecanoic acid	µg/L	0.05	Org-029	<0.05	3	<0.05	<0.05	0	119	130
4:2 FTS	µg/L	0.001	Org-029	<0.001	3	<0.001	<0.001	0	105	111
6:2 FTS	µg/L	0.0004	Org-029	<0.0004	3	<0.0004	<0.0004	0	115	111
8:2 FTS	µg/L	0.0004	Org-029	<0.0004	3	<0.0004	<0.0004	0	109	125
10:2 FTS	µg/L	0.002	Org-029	<0.002	3	<0.002	<0.002	0	112	136
Perfluorooctane sulfonamide	µg/L	0.01	Org-029	<0.01	3	<0.01	<0.01	0	108	129
N-Methyl perfluorooctane sulfonamide	µg/L	0.005	Org-029	<0.005	3	<0.005	<0.005	0	112	##
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.01	Org-029	<0.01	3	<0.01	<0.01	0	113	##
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.005	Org-029	<0.005	3	<0.005	<0.005	0	127	152
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-029	<0.05	3	<0.05	<0.05	0	114	138
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.002	Org-029	<0.002	3	<0.002	<0.002	0	108	130
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.002	Org-029	<0.002	3	<0.002	<0.002	0	111	148
Surrogate ¹³ C ₈ PFOS	%		Org-029	98	3	104	98	6	101	101
Surrogate ¹³ C ₂ PFOA	%		Org-029	91	3	91	92	1	92	96
Extracted ISTD ¹³ C ₃ PFBS	%		Org-029	92	3	88	84	5	90	79

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Elutriate TRACE Extended						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-14
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	80	3	84	84	0	87	82
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	60	3	54	61	12	68	50
Extracted ISTD ¹³ C ₄ PFBA	%		Org-029	95	3	87	86	1	95	84
Extracted ISTD ¹³ C ₃ PFPeA	%		Org-029	96	3	88	86	2	94	82
Extracted ISTD ¹³ C ₂ PFHxA	%		Org-029	97	3	92	91	1	100	90
Extracted ISTD ¹³ C ₄ PFHpA	%		Org-029	91	3	86	87	1	92	88
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	88	3	85	86	1	87	82
Extracted ISTD ¹³ C ₅ PFNA	%		Org-029	83	3	80	82	2	89	79
Extracted ISTD ¹³ C ₂ PFDA	%		Org-029	61	3	55	64	15	64	46
Extracted ISTD ¹³ C ₂ PFUnDA	%		Org-029	51	3	45	55	20	57	35
Extracted ISTD ¹³ C ₂ PFDoDA	%		Org-029	43	3	36	48	29	48	32
Extracted ISTD ¹³ C ₂ PFTeDA	%		Org-029	61	3	51	61	18	64	51
Extracted ISTD ¹³ C ₂ 4:2FTS	%		Org-029	105	3	125	111	12	110	121
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	97	3	95	95	0	89	91
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	66	3	72	73	1	69	59
Extracted ISTD ¹³ C ₈ FOSA	%		Org-029	56	3	46	52	12	59	41
Extracted ISTD d ₃ N MeFOSA	%		Org-029	35	3	#	20		35	#
Extracted ISTD d ₅ N EtFOSA	%		Org-029	36	3	#	20		34	#
Extracted ISTD d ₇ N MeFOSE	%		Org-029	51	3	35	41	16	53	32
Extracted ISTD d ₉ N EtFOSE	%		Org-029	50	3	36	43	18	53	33

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Elutriate TRACE Extended						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	254436-14
<i>Extracted ISTD d₃ N MeFOSAA</i>	%		Org-029	55	3	46	59	25	58	37
<i>Extracted ISTD d₅ N EtFOSAA</i>	%		Org-029	51	3	45	55	20	55	34

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Waters Extended						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			14/12/2020	46	14/12/2020	14/12/2020		14/12/2020	[NT]
Date analysed	-			16/12/2020	46	14/12/2020	14/12/2020		16/12/2020	[NT]
Perfluorobutanesulfonic acid	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	97	[NT]
Perfluoropentanesulfonic acid	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	108	[NT]
Perfluorohexanesulfonic acid	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	92	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	103	[NT]
Perfluorooctanesulfonate PFOS	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	97	[NT]
Perfluorodecanesulfonic acid	µg/L	0.02	Org-029	<0.02	46	<0.02	<0.02	0	92	[NT]
Perfluorobutanoic acid	µg/L	0.02	Org-029	<0.02	46	<0.02	<0.02	0	96	[NT]
Perfluoropentanoic acid	µg/L	0.02	Org-029	<0.02	46	<0.02	<0.02	0	97	[NT]
Perfluorohexanoic acid	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	94	[NT]
Perfluoroheptanoic acid	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	93	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	101	[NT]
Perfluorononanoic acid	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	84	[NT]
Perfluorodecanoic acid	µg/L	0.02	Org-029	<0.02	46	<0.02	<0.02	0	86	[NT]
Perfluoroundecanoic acid	µg/L	0.02	Org-029	<0.02	46	<0.02	<0.02	0	93	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-029	<0.05	46	<0.05	<0.05	0	100	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-029	<0.1	46	<0.1	<0.1	0	108	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-029	<0.5	46	<0.5	<0.5	0	93	[NT]
4:2 FTS	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	84	[NT]
6:2 FTS	µg/L	0.01	Org-029	<0.01	46	<0.01	<0.01	0	108	[NT]
8:2 FTS	µg/L	0.02	Org-029	<0.02	46	<0.02	<0.02	0	98	[NT]
10:2 FTS	µg/L	0.02	Org-029	<0.02	46	<0.02	<0.02	0	90	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-029	<0.1	46	<0.1	<0.1	0	80	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-029	<0.05	46	<0.05	<0.05	0	99	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-029	<0.1	46	<0.1	<0.1	0	99	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-029	<0.05	46	<0.05	<0.05	0	94	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-029	<0.5	46	<0.5	<0.5	0	83	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	46	<0.02	<0.02	0	110	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	46	<0.02	<0.02	0	103	[NT]
Surrogate ¹³ C ₈ PFOS	%		Org-029	97	46	108	102	6	99	[NT]
Surrogate ¹³ C ₂ PFOA	%		Org-029	108	46	94	102	8	97	[NT]
Extracted ISTD ¹³ C ₃ PFBS	%		Org-029	99	46	99	102	3	97	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Waters Extended						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-029	104	46	104	103	1	101	[NT]
Extracted ISTD ¹³ C ₄ PFOS	%		Org-029	88	46	87	91	4	87	[NT]
Extracted ISTD ¹³ C ₄ PFBA	%		Org-029	113	46	114	113	1	110	[NT]
Extracted ISTD ¹³ C ₃ PFPeA	%		Org-029	99	46	99	100	1	97	[NT]
Extracted ISTD ¹³ C ₂ PFHxA	%		Org-029	96	46	103	101	2	98	[NT]
Extracted ISTD ¹³ C ₄ PFHpA	%		Org-029	110	46	112	114	2	110	[NT]
Extracted ISTD ¹³ C ₄ PFOA	%		Org-029	111	46	120	121	1	113	[NT]
Extracted ISTD ¹³ C ₅ PFNA	%		Org-029	132	46	132	137	4	137	[NT]
Extracted ISTD ¹³ C ₂ PFDA	%		Org-029	121	46	121	127	5	120	[NT]
Extracted ISTD ¹³ C ₂ PFUnDA	%		Org-029	118	46	121	121	0	116	[NT]
Extracted ISTD ¹³ C ₂ PFDoDA	%		Org-029	82	46	91	94	3	82	[NT]
Extracted ISTD ¹³ C ₂ PFTeDA	%		Org-029	84	46	120	119	1	91	[NT]
Extracted ISTD ¹³ C ₂ 4:2FTS	%		Org-029	110	46	120	116	3	115	[NT]
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-029	117	46	126	120	5	110	[NT]
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-029	106	46	112	103	8	96	[NT]
Extracted ISTD ¹³ C ₈ FOSA	%		Org-029	112	46	113	112	1	107	[NT]
Extracted ISTD d ₃ N MeFOSA	%		Org-029	104	46	106	105	1	92	[NT]
Extracted ISTD d ₅ N EtFOSA	%		Org-029	90	46	99	97	2	82	[NT]
Extracted ISTD d ₇ N MeFOSE	%		Org-029	112	46	118	117	1	98	[NT]
Extracted ISTD d ₉ N EtFOSE	%		Org-029	125	46	138	138	0	114	[NT]

Client Reference: EEC2078.006 - Fremantle Traffic Bridge

QUALITY CONTROL: PFAS in Waters Extended						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
<i>Extracted ISTD d₃ N MeFOSAA</i>	%		Org-029	101	46	115	114	1	102	[NT]
<i>Extracted ISTD d₅ N EtFOSAA</i>	%		Org-029	105	46	117	116	1	104	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported