

The majority of comparable inter-laboratory duplicate soil analyses had RPD values below the ASC NEPM recommended comparison criteria of 30%, apart from:

- Copper, zinc, and TRH C₁₅ – C₂₈ fraction between primary sample A2_TP01_0 and intra-laboratory duplicate QC01.
- Arsenic, lead, and TRH C₁₅ – C₂₈ fraction between primary sample A2_TP01_0 and inter-laboratory duplicate QC01A.

Where reported, the elevated RPDs calculated are attributable to one of the following causes:

- Relatively low metal analyte concentrations, which can exaggerate the calculated RPD with respect to small total concentration differences, and/ or
- The particulate nature of soils, which can cause uneven distribution of chemicals in soils and cause variation in RPDs.
- With respect to sample A2_TP01_0, the TRH / TPH present may be attributable to bitumen present in the fill, which are typically unevenly distributed within soils and can result in elevated RPDs.

Agon does not consider that the elevated RPDs would affect the integrity of the soil analytical results as the highest concentration has been adopted (as a conservative measure) as the representative result between primary and replicate soil samples with elevated RPDs.

4.7.3 Field Blanks

To establish whether cross-contamination may be occurring during soil sampling, equipment rinsate blank samples (RB01, RB02 and RB03) were collected and analysed. The rinsate blanks were collected from the stainless-steel hand trowel used to collect the samples. Laboratory trip blank samples (TB01 and TB02) (placed in esky prior to transportation of samples) were supplied to establish whether cross-contamination may occur during sample transport.

Concentrations of all requested analytes in rinsate and trip blank samples were reported below the LORs. This demonstrates that no cross contamination during the sample collection or sample travel has occurred.

4.7.4 Data Quality Conclusions

Field and laboratory QA/ QC results have been reviewed and verified for this phase of work. Agon considers the fieldwork undertaken and laboratory analysis are acceptable for the purposes of confirming the reliability and repeatability of the sampling and laboratory analysis procedures.

5.0 DISCUSSION

The soil conditions encountered indicates road base type material has been used for backfilling all three remediation areas, with the material logged as greyish brown silty gravelly sands with asphalt inclusions throughout. Depths of this fill domain generally corresponds to remediation excavation depths at all three areas, as reported by Greencap (2021 and 2023a).

Light brown to orange brown silty clayey sands were encountered underlying the emplaced road base type fill at all three remediation areas. This soil type is consistent to that logged by Greencap (2021) during post remediation validation sampling and indicates this domain is the top of pre-existing soils remaining in-situ post remediation actions.

Concentrations of TRH fractions above LOR were reported in the emplaced fill at all test locations and depths, apart from one in Area 1 (BH03 at 0.3 m bgl).

Greencap (2021 and 2023c) has reported residual diesel impacts remained in soils post remediation at all three remediation areas at concentrations ranging up to 27,000 (C₁₀ - C₁₆)(F2), 23,000 mg/kg (C₁₆ - C₃₄) (F3), and 4,900 mg/kg (C₃₄ - C₄₀) (F4), with the majority present in the F2 and F3 fractions typical of a diesel product signature. The TRH concentrations measured in the backfill material ranged up to 200 mg/kg C₁₀ - C₁₆ (F2), 1,100 mg/kg C₁₆ - C₃₄ (F3), and 3,800 mg/kg C₃₄ - C₄₀ (F4), with the majority present in the longer chain F4 fraction and typical of a bitumen based product.

Overall, the TRH present within the emplaced fill is likely attributed to the asphalt inclusions, supported by the TRH signature, no staining or odours encountered within the material during investigations, and with all PID readings below 1 ppm. Elevated concentrations of hydrocarbons are commonly present in asphalt material due to its bitumen content, with the hydrocarbons largely immobile with typically low bioavailability.

The backfill material in the three remediation areas is differentiated from the pre-existing underlying soils based on reported remedial excavation depths, soil type, and hydrocarbon concentrations and signatures.

Two concentrations of TRH in the backfill material at Area 3 were reported in excess of the ESL. The ESLs generally apply from the surface to 2 m depth below finished surface/ ground level, which corresponds to the root zone and habitation zone of many terrestrial species and are intended for the protection of these flora and fauna. The Area 3 location is part of a highly modified commercial site, being within the rail corridor of the freight terminal, with the shallow soils of the area having minimal ecological value with regard to terrestrial flora and fauna.

There was no evidence of additional chemicals/ contaminants of concern within the emplaced fill.

Though only three soil samples were collected from the maximum depth of the backfill, the type of backfill material was consistent throughout all remediation areas and sufficient samples have been collected and analysed to sufficiently characterise the chemical and physical qualities of the backfill material.

With regard to the objectives of the investigation, the source of the backfill material is likely to be recovered/ repurposed road base, with its chemical and physical qualities not considered to present an unacceptable risk to ecological or human health receptors in the context of the continued use of the site as a rail freight terminal.

6.0 CONCLUSIONS

Agon was engaged by Aurizon to undertake a soil investigation at a portion of the Berrimah Freight Terminal, Export Drive, Berrimah. The objective of the investigation was to assess the chemical and physical quality of material used to backfill three remediation areas where diesel impacted soil excavation occurred following a diesel spill in 2020. The suitability of the material for use as backfill of the remediation areas was identified as a data gap that required addressing at the request of Mr Graeme Miller of Senversa, the appointed independent Site Contamination Auditor.

The investigative scope comprised:

- An intrusive soil investigation, targeting remediated and backfilled areas and based on previously reported lateral and vertical remediation extents, with a total of 21 soil sampling points advanced through the backfill.
- The collection of soil samples as representative of the backfill material.
- The analysis of selected samples for chemicals of potential concern.

The soil conditions encountered suggests road base type material with asphalt inclusions has been used for backfilling all three remediation areas, with the backfill material differentiated from the pre-existing underlying soils comprising light brown to orange brown silty clayey sands.

Detectable concentrations of TRH were reported as widely distributed within the backfill at all three remediation areas, with concentrations at one investigation location within Area 3 above the adopted Tier 1 ecological screening level (ESL) that has been derived for the protection of terrestrial flora and fauna. The TRH within the backfill was largely present in the longer chain F4 fraction and likely attributed to the asphalt inclusions, with the presence of TRH in this media considered reflective of the nature of a bitumen based product and differentiated from diesel impacts by the TRH signature.

No other chemicals of concern were identified within the backfill material.

In conclusion, the source of the backfill material placed in all three site remediation areas is likely to be recovered/ repurposed road base, with its chemical and physical qualities considered to present a low risk to ecological and/ or human health receptors, given:

- Hydrocarbons are commonly present in asphalt material, and when present in this media, the hydrocarbons are largely immobile with typically low bioavailability.
- The remediation areas are part of a highly modified commercial site, being within the rail corridor of the Berrimah Freight Terminal, with the shallow soils of the area having minimal ecological value with regard to terrestrial flora and fauna.
- Concentrations of the tested chemicals are reported to be less than the adopted human health investigation and screening levels.

Therefore, the backfill material is considered suitable to remain onsite in the context of the continued use of the site as a rail freight terminal.

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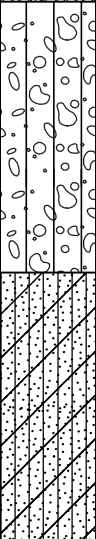
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APPENDIX A: SOIL BORE LOGS

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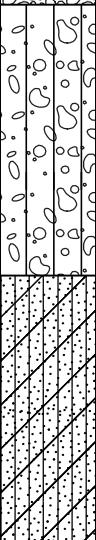
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PROJECT NAME Soil Investigation	DIAMETER 0.5 m	DATE 27/06/2024 & 10/07/2024
CLIENT Aurizon	TOTAL DEPTH 0.5 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY Agon	NORTHING

COMMENTS Geofabric material encountered at 0.1 mbgl.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations							
0.02	0.2	BH01_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D								
0.04														
0.06														
0.08														
0.1														
0.12														
0.14														
0.16														
0.18														
0.2														
0.22	0.1	BH01_0.3			BALLAST									
0.24														
0.26														
0.28														
0.3														
0.32														
0.34														
0.36														
0.38														
0.4														
0.42	0.3	BH01_0.4		NAT	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse natural rock throughout, light brown/orange brown.									
0.44														
0.46														
0.48														
0.5														
0.52														
0.54														
0.5												End of Borehole at 0.5 m.		



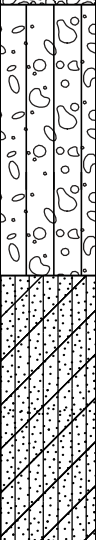
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PROJECT NAME Soil Investigation	DIAMETER 0.5 m	DATE 27/06/2024 & 10/07/2024
CLIENT Aurizon	TOTAL DEPTH 0.5 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY Agon	NORTHING

COMMENTS Geofabric material encountered at 0.1 mbgl.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations							
0.02	0.5	BH02_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D								
0.04														
0.06														
0.08														
0.1														
0.12														
0.14														
0.16														
0.18														
0.2														
0.22	0.2	BH02_0.3		BALLAST										
0.24														
0.26														
0.28														
0.3														
0.32														
0.34														
0.36														
0.38														
0.4														
0.42	0.3	BH02_0.4		NAT	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse natural rock throughout, light brown/orange brown.									
0.44														
0.46														
0.48														
0.5														
0.52														
0.54														
												End of Borehole at 0.5 m.		



PROJECT NUMBER JC1580	DRILL METHOD Hand Auger	TEST PIT LOCATION AREA 1
PROJECT NAME Soil Investigation	DIAMETER 0.5 m	DATE 27/06/2024 & 10/07/2024
CLIENT Aurizon	TOTAL DEPTH 0.5 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY Agon	NORTHING

COMMENTS Geofabric material encountered at 0.1 mbgl.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations							
0.02	0.4	BH03_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D								
0.04														
0.06														
0.08														
0.1														
0.12														
0.14														
0.16														
0.18														
0.2														
0.22	0.3	BH03_0.3		BALLAST										
0.24														
0.26														
0.28														
0.3														
0.32														
0.34														
0.36														
0.38														
0.4														
0.42	0.3	BH03_0.4		NAT	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse natural rock throughout, light brown/orange brown.									
0.44														
0.46														
0.48														
0.5														
0.52														
0.54														
0.5												End of Borehole at 0.5 m.		


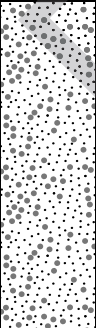
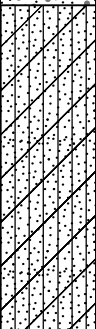
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CLIENT Aurizon	TOTAL DEPTH 0.15 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY Agon	NORTHING

COMMENTS Geofabric material encountered at 0.1 mbgl.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.01	0.2	BH04_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D	
0.02							
0.03							
0.04							
0.05							
0.06							
0.07							
0.08							
0.09							
0.1							
0.11				BALLAST			
0.12							
0.13							
0.14							
0.15					End of Borehole at 0.15 m.		
0.16							



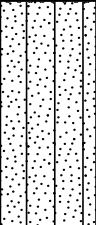
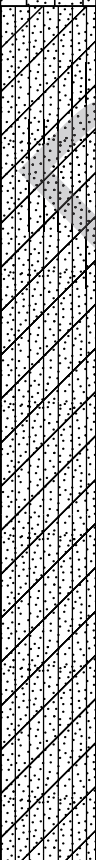
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PROJECT NAME Soil Investigation	DIAMETER 0.5 m	DATE 27/06/2024 & 10/07/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY Agon	NORTHING

COMMENTS	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02				FILL	BALLAST	D	
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2							
0.2	0.1	BH05_0.2			Gravelly SAND, fine to coarse grained sand, fine to coarse crushed rock throughout, grey/brown.		
0.22							
0.24							
0.26							
0.28							
0.3	0.2	BH05_0.3			Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, orange brown/brown.	S/M	
0.32							
0.34							
0.36							
0.38							
0.4					End of Borehole at 0.4 m.		
0.42							
0.44							



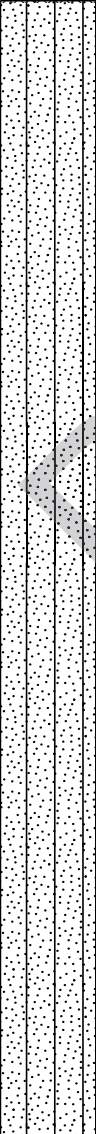

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PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 1.2 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS Ballast layer of 0.2m at surface. 0.05m geofabric material under ballast material.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.05				FILL	BALLAST LAYER		
0.1							
0.15					GEOFABRIC LAYER		
0.2							
0.25	0.5	A2_TP01_0			Silty SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, some fine to coarse bitumen, dark brown.	SM	QC01/QC01A
0.3							
0.35							
0.4							
0.45	0.6	A2_TP01_0.2			Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.		
0.5							
0.55							
0.6							
0.65							
0.7	0.2	A2_TP01_0.7					
0.75							
0.8							
0.85							
0.9							
0.95							
1	1	A2_TP01_1					
1.05							
1.1							
1.15							
1.2					End of Test Pit at 1.2 m.		
1.25							



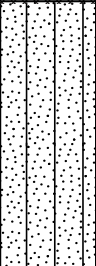
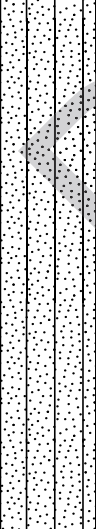
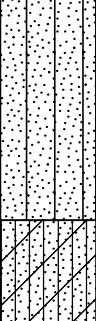
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PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 1.8 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS Ballast layer of 0.2m at surface. 0.05m geofabric material under ballast material.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations	
0.1				FILL	BALLAST LAYER			
0.2					GEOFABRIC LAYER			
0.3	0.2	A2_TP02_0			Silty SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, some fine to coarse bitumen, dark brown.	D		
0.4								
0.5		A2_TP02_0.5						
0.6								
0.7								
0.8								
0.9								
1.0		A2_TP02_1				SM		
1.1								
1.2								
1.3								
1.4								
1.5		A2_TP02_1.5						
1.6								
1.7		A2_TP02_1.7			Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	M		
1.8					End of Test Pit at 1.8 m.			


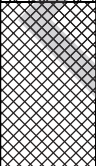
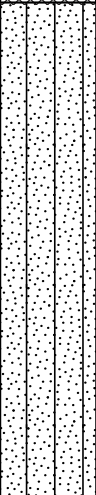
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 2
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 1.3 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS Ballast layer of 0.2m at surface. 0.05m geofabric material under ballast material.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.1				FILL	BALLAST LAYER		
0.2					GEOFABRIC LAYER		
0.3	0.2	A2_TP03_0			Silty SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, some fine to coarse bitumen, dark brown.	D	
0.5	0.1	A2_TP03_0.5				SM	
1.1	0.2	A2_TP03_1			Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	M	
1.3					End of Test Pit at 1.3 m.		


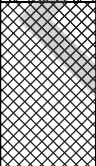
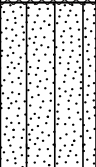
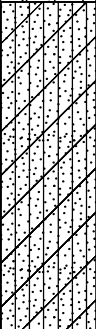
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 2
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahon Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS Ballast layer of 0.2m at surface. 0.05m geofabric material under ballast material.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations	
0.02				FILL	BALLAST LAYER			
0.04								
0.06								
0.08								
0.1								
0.12								
0.14								
0.16								
0.18								
0.2								
0.22					GEOFABRIC LAYER			
0.24								
0.26	0.2	A2_TP04_0			Silty SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, some fine to coarse bitumen, dark brown.	SM		
0.28								
0.3								
0.32								
0.34								
0.36								
0.38								
0.4								
0.42					End of Test Pit at 0.4 m.			
0.44								


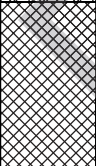
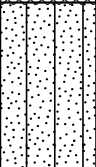
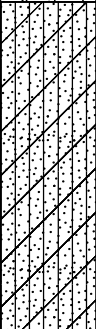
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 2
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS Ballast layer of 0.2m at surface. 0.05m geofabric material under ballast material.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations	
0.02				FILL	BALLAST LAYER			
0.04								
0.06								
0.08								
0.1								
0.12								
0.14								
0.16								
0.18								
0.2								
0.22					GEOFABRIC LAYER			
0.24								
0.26	0.2	A2_TP05_0			Silty SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, some fine to coarse bitumen, dark brown.	SM		
0.28								
0.3								
0.32					Silty Clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse sized crushed rock throughout, light brown / orange brown.			
0.34								
0.36								
0.38								
0.4					End of Test Pit at 0.4 m.			
0.42								
0.44								


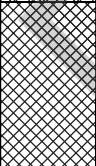
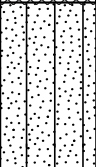
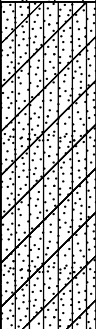
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 2
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS Ballast layer of 0.2m at surface. 0.05m geofabric material under ballast material.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations	
0.02				FILL	BALLAST LAYER			
0.04								
0.06								
0.08								
0.1								
0.12								
0.14								
0.16								
0.18								
0.2								
0.22					GEOFABRIC LAYER			
0.24								
0.26	0.2	A2_TP06_0			Silty SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, some fine to coarse bitumen, dark brown.	SM		
0.28								
0.3								
0.32					Silty Clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse sized crushed rock throughout, light brown / orange brown.			
0.34								
0.36								
0.38								
0.4					End of Test Pit at 0.4 m.			
0.42								
0.44								


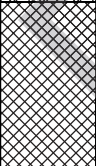
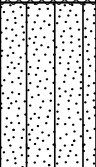
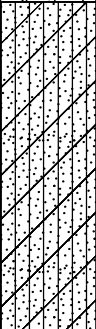
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 2
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS Ballast layer of 0.2m at surface. 0.05m geofabric material under ballast material.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02				FILL	BALLAST LAYER		
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2							
0.22					GEOFABRIC LAYER		
0.24							
0.26	0.1	A2_TP07_0			Silty SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, some fine to coarse bitumen, dark brown.	SM	
0.28							
0.3							
0.32					Silty Clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse sized crushed rock throughout, light brown / orange brown.		
0.34							
0.36							
0.38							
0.4					End of Test Pit at 0.4 m.		
0.42							
0.44							

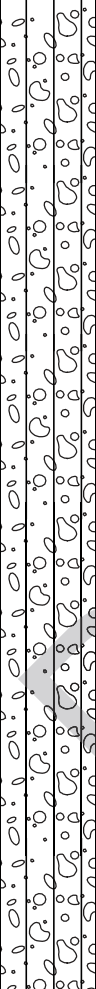
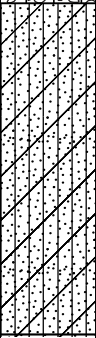
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 2
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS Ballast layer of 0.2m at surface. 0.05m geofabric material under ballast material.	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02				FILL	BALLAST LAYER		
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2					GEOFABRIC LAYER		
0.22							
0.24							
0.26	0.1	A2_TP08_0			Silty SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, some fine to coarse bitumen, dark brown.	SM	
0.28							
0.3					Silty Clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse sized crushed rock throughout, light brown / orange brown.		
0.32							
0.34							
0.36							
0.38							
0.4					End of Test Pit at 0.4 m.		
0.42							
0.44							

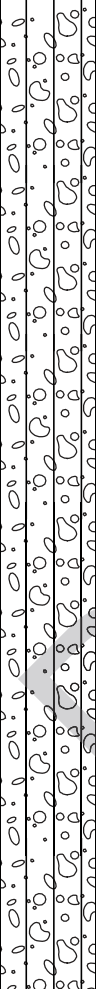
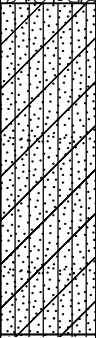
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 3
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02	0.2	A3_TP01_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D	
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2							
0.22	0.1			RWN	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	S/M	
0.24							
0.26							
0.28							
0.3							
0.32							
0.34							
0.36							
0.38							
0.4					End of Test Pit at 0.4 m.		
0.42							
0.44							

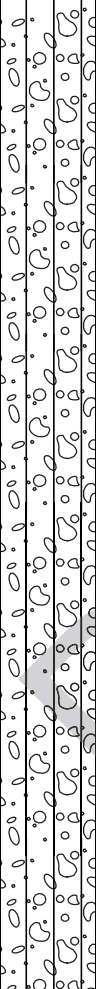
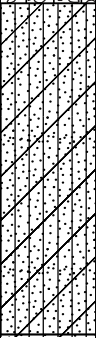
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 3
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02	0.2	A3_TP02_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D	
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2							
0.22							
0.24							
0.26	0.2			RWN	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	S/M	
0.28							
0.3							
0.32							
0.34							
0.36					End of Test Pit at 0.4 m.		
0.38							
0.4							
0.42							
0.44							

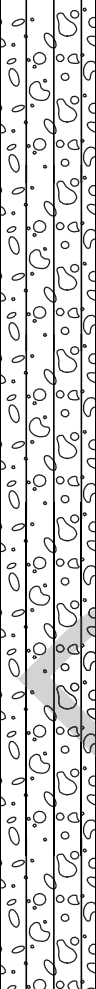
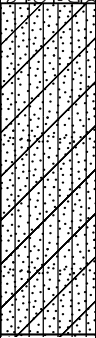
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 3
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02	0.2	A3_TP03_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D	
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2							
0.22							
0.24							
0.26							
0.28							
0.3	0.1			RWN	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	S/M	
0.32							
0.34							
0.36							
0.38							
0.4					End of Test Pit at 0.4 m.		
0.42							
0.44							

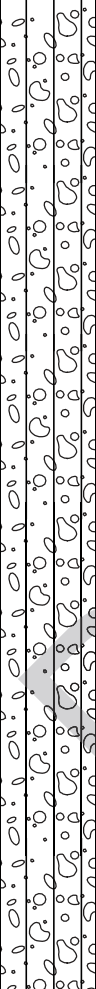
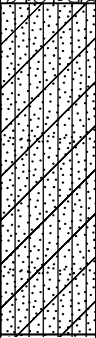
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 3
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02	0.2	A3_TP04_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D	
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2							
0.22							
0.24							
0.26							
0.28							
0.3	0.3			RWN	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	S/M	
0.32							
0.34							
0.36							
0.38							
0.4					End of Test Pit at 0.4 m.		
0.42							
0.44							

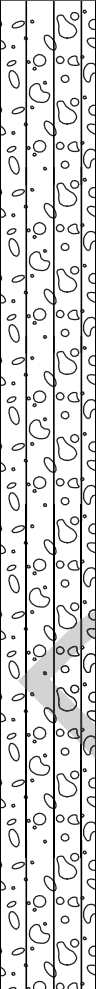
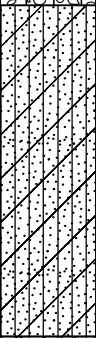
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 3
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02	0.2	A3_TP05_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D	
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2							
0.22							
0.24							
0.26							
0.28							
0.3	0.3			RWN	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	S/M	
0.32							
0.34							
0.36							
0.38							
0.4					End of Test Pit at 0.4 m.		
0.42							
0.44							

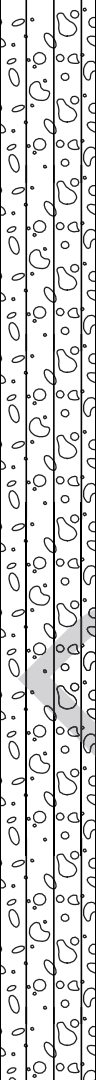
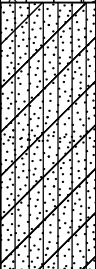
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 3
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.4 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02	0.2	A3_TP06_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D	
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2							
0.22							
0.3	0.1			RWN	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	S/M	
0.32							
0.34							
0.36							
0.38							
0.4					End of Test Pit at 0.4 m.		
0.42							
0.44							


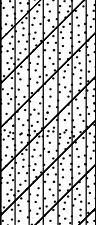
PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 3
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.5 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.02	0.3	A3_TP07_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D	QC02/QC02A - PFAS
0.04							
0.06							
0.08							
0.1							
0.12							
0.14							
0.16							
0.18							
0.2							
0.22							
0.24							
0.26							
0.28							
0.3							
0.32							
0.34							
0.36							
0.38							
0.4	0.1			RWN	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	S/M	
0.42							
0.44							
0.46							
0.48							
0.5					End of Test Pit at 0.5 m.		
0.52							
0.54							

PROJECT NUMBER JC1580	DRILL METHOD Mechanical Excavator	TEST PIT LOCATION AREA 3
PROJECT NAME Soil Investigation	DIAMETER 0.45 m	DATE 26/06/2024
CLIENT Aurizon	TOTAL DEPTH 0.6 m	EASTING
ADDRESS Berrimah Freight Terminal, NT	DRILL COMPANY McMahons Services	NORTHING
	DRILL MODEL PCS5MR Komatso	

COMMENTS	LOGGED BY VB
	CHECKED BY CG

Depth (m)	PID	Samples	Graphic Log	Lith	Material Description	Moisture	Additional Observations
0.05	0.4	A3_TP08_0		FILL	Gravelly silty SAND, fine to coarse grained sand, low to medium plasticity, road base, some bitumen, grey/brown.	D	
0.1							
0.15							
0.2							
0.25							
0.3	0.2			RWN	Silty clayey SAND, fine to coarse grained sand, low to medium plasticity, fine to coarse crushed rock throughout, light brown/orange brown.	S/M	
0.35							
0.4							
0.45							
0.5							
0.55							
0.6					End of Test Pit at 0.6 m.		

APPENDIX B: PHOTOGRAPH LOG

DRAFT

Area 1



Photograph 1: View of borehole with ballast and geofabric material in Area 1



Photograph 2: View of silty clay sand material encountered in Area 1

Area 2



Photograph 3: View of rail ballast surface at A2_TP01 in Area 2



Photograph 4: View of A2_TP02 in Area 2



Photograph 5: View of light brown silty sand material underlying dark brown sands in Area 2

Area 3



Photograph 6: View of A3_TP01 in Area 3



Photograph 7: View of A3_TP04 in Area 3

APPENDIX C: PID CALIBRATION CERTIFICATE

DRAFT

PID Calibration Certificate

Instrument **PhoCheck Tiger**
Serial No. **T-118548**



Air-Met Scientific Pty Ltd
1300 137 067

Item	Test	Pass	Comments			
Battery	Charge Condition	✓				
	Fuses	✓				
	Capacity	✓				
	Recharge OK?	✓				
Switch/keypad	Operation	✓				
	Display	Intensity	✓			
Grill Filter	Operation	✓				
	(segments)	✓				
Pump	Condition	✓				
	Seal	✓				
PCB	Operation	✓				
	Filter	✓				
	Flow	✓				
	Valves, Diaphragm	✓				
Connectors	Condition	✓				
	Condition	✓				
Sensor	PID	✓	10.6 ev			
Alarms	Beeper	✓	Low	High	TWA	STEL
	Settings	✓	50ppm	100ppm	N/A	N/A
Software	Version	✓				
Data logger	Operation	✓				
Download	Operation	✓				
Other tests:						

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No	Instrument Reading
PID Lamp		100 PPM	NATA	SA057	100.9 ppm

Calibrated by: _____ **Trent Chase**

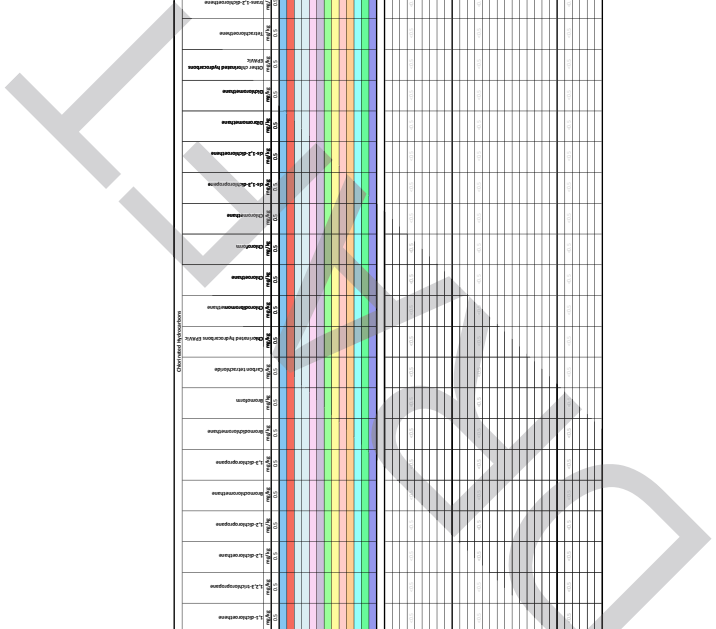
Calibration date: **17/06/2024**

Next calibration due: **15/09/2024**

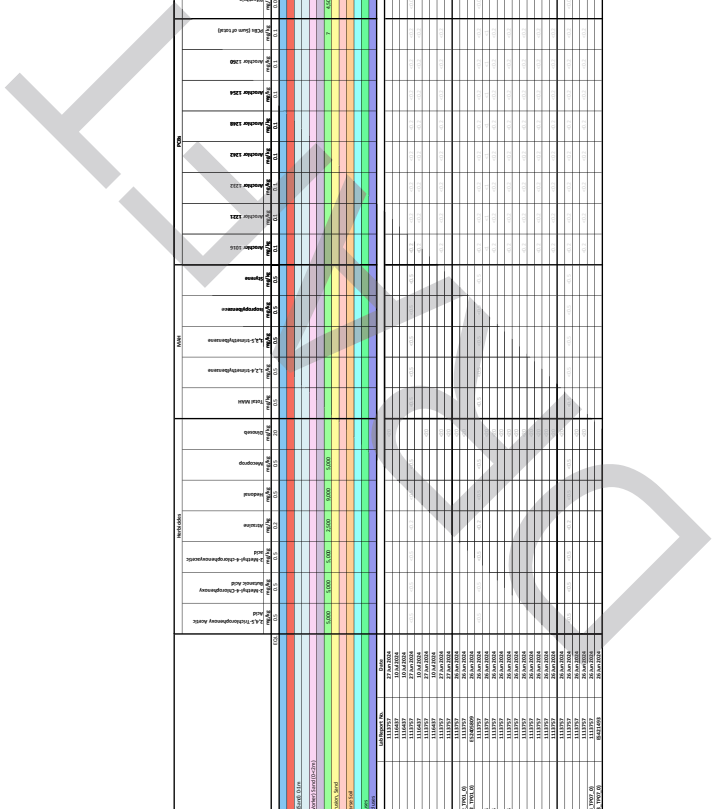
APPENDIX D: SOIL ANALYTICAL RESULTS TABLES

DRAFT

ID	Description	Soil Type			Soil Class			Soil Code			Soil Name			Soil Depth		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1
2
3



No.	Description	Soil			Water			Air			Noise			Vibration			Other		
		Soil	Water	Air	Soil	Water	Air	Soil	Water	Air	Soil	Water	Air	Soil	Water	Air	Soil	Water	Air
1
2
3



Chem_Group	ChemName	Units	Lab Report Number Field ID	Sampled_Date/Time	Sample Type	EQI	
BTEX	Benzene	mg/L	1113757 RB01	26/06/2024	Rinsate	<0.001	
	Ethylbenzene	mg/L	1113757 RB02	27/06/2024	Rinsate	<0.001	
	Toluene	mg/L	1113757 RB03	10/07/2024	Rinsate	<0.001	
	m&p-Xylenes	mg/L	1113757 TB01	27/06/2024	Trip_B	<0.001	
	o-Xylenes	mg/L	1113757 TB02	10/07/2024	Trip_B	<0.001	
	Xylenes Total	mg/L	1113757 RB02	27/06/2024	Rinsate	<0.002	
						<0.001	
Metals	Arsenic	mg/L	1113757 RB01	26/06/2024	Rinsate	<0.001	
	Cadmium	mg/L	1113757 RB02	27/06/2024	Rinsate	<0.0002	
	Chromium	mg/L	1113757 RB03	10/07/2024	Rinsate	<0.001	
	Copper	mg/L	1113757 TB01	27/06/2024	Trip_B	<0.001	
	Lead	mg/L	1113757 TB02	10/07/2024	Trip_B	<0.001	
	Mercury	mg/L	1113757 RB02	27/06/2024	Rinsate	<0.0001	
	Nickel	mg/L	1113757 RB03	10/07/2024	Rinsate	<0.001	
	Zinc	mg/L	1113757 RB02	27/06/2024	Rinsate	<0.005	
TRH							
		C6-C9	mg/L	1113757 RB01	26/06/2024	Rinsate	<0.02
		C10-C14	mg/L	1113757 RB02	27/06/2024	Rinsate	<0.05
		C15-C28	mg/L	1113757 RB03	10/07/2024	Rinsate	<0.1
		C29-C36	mg/L	1113757 TB01	27/06/2024	Trip_B	<0.1
		C10-C36	mg/L	1113757 TB02	10/07/2024	Trip_B	<0.1
		C6-C10	mg/L	1113757 RB02	27/06/2024	Rinsate	<0.02
		C6-C10 less BTEX (F1)	mg/L	1113757 RB03	10/07/2024	Rinsate	<0.02
	C10-C16	mg/L	1113757 TB01	27/06/2024	Trip_B	<0.05	
	C10-C16 less Naphthalene (F2)	mg/L	1113757 TB02	10/07/2024	Trip_B	<0.05	
	C16-C34	mg/L	1113757 RB02	27/06/2024	Rinsate	<0.1	
	C34-C40	mg/L	1113757 RB03	10/07/2024	Rinsate	<0.1	
	C10-C40	mg/L	1113757 TB01	27/06/2024	Trip_B	<0.1	

APPENDIX E: LABORATORY CERTIFICATES OF ANALYSIS

DRAFT



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing | ABR 10 000 080 521

Company		Agon Environmental Pty Ltd - NT		Project No	JC1580 <th>Project Manager</th> <td colspan="2">Varun Bhagwat</td> <th>Sampler(s)</th> <td colspan="2">VB</td>		Project Manager	Varun Bhagwat		Sampler(s)	VB											
Address		1/41 Jessop Cres Berimah NT 8228		Project Name		Soil Investigation		EDD Form	Esdat		Facility Code	Handed over by		VB on 26-27/6/24								
Contact Name		Varun Bhagwat		Analysis <small>When an analysis is requested, please specify 'Major' or 'Minor' and 'Soil' or 'Water' for the analysis to be performed.</small>	BAA: TRIMETHYLPHENOLS	M13: NPB1 2(1) Metals	B15: COP/OP/PCB	PFAS: F4 Sulph	RO: METAD203 B1 Toxins V1 (VH), Bact-Sulph	VOC	TRM(COC)OBTEN	MS Metals	B7A: TRIMETHYLPHENOLS Metals	Email for Invoice		finance@agonenviro.com.au						
Phone No		0422 636 277												Email for Results		varun.bhagwat@agonenviro.com.au; agonenvironmental@esdat.com.au						
Special Directions														Containers		Change container type & size (if necessary)		Required Turnaround Time (TAT) Customer's Part 2 Data 1 (not used)				
Purchase Order														500ml. Plastic	600ml. Plastic	125ml. Plastic	200ml. Analyt. Glass	40ml. VOA-vol	500ml. PFAS Bottles	Jar (Glass or HDPE)	Sample Comments / Dangerous Goods Hazard Warning	
Quote ID No																						
No	Client Sample ID	Sampled Date/Time (mm/dd/yyyy hh:mm)	Matrix (Soil (S) Water (W))																			
1	BH01_0	27/06/24	Soil	X	X		X										2					
2	BH02_0	27/06/24	Soil					X	X								2					
3	BH03_0	27/06/24	Soil	X	X		X										2					
4	BH04_0	27/06/24	Soil	X		X											2					
5	BH05_0.2	27/06/24	Soil	X													2					
6	BH05_0.3	27/06/24	Soil														2					
7	A2_TP01_0	26/06/24	Soil	X	X		X										2					
	A2_TP01_0.2	26/06/24	Soil														2					
	A2_TP01_0.7	26/06/24	Soil														2					
	A2_TP01_1	26/06/24	Soil														2					
7	A2_TP02_0	26/06/24	Soil				X	X	X								2					
	A2_TP02_0.5	26/06/24	Soil	X		X											2					
	A2_TP02_1	26/06/24	Soil	X	X												2					
	A2_TP02_1.5	26/06/24	Soil	X		X											2					
	A2_TP02_1.7	26/06/24	Soil														2					
7	A2_TP03_0	26/06/24	Soil	X	X		X										2					
	A2_TP03_0.5	26/06/24	Soil	X		X											2					
	A2_TP03_1	26/06/24	Soil	X	X												2					
	A2_TP04_0	26/06/24	Soil	X		X											2					
	A2_TP05_0	26/06/24	Soil	X	X		X										2					
	A2_TP06_0	26/06/24	Soil	X		X											2					
	A2_TP07_0	26/06/24	Soil	X	X		X										2					
	A2_TP08_0	26/06/24	Soil	X		X											2					
	A3_TP01_0	26/06/24	Soil	X	X		X										2					
	A3_TP02_0	26/06/24	Soil														2					
	A3_TP03_0	26/06/24	Soil				X	X	X								2					
	A3_TP04_0	26/06/24	Soil														2					
	A3_TP05_0	26/06/24	Soil	X	X		X										2					
	A3_TP06_0	26/06/24	Soil														2					
	A3_TP07_0	26/06/24	Soil	X		X	X										2					
	A3_TP08_0	26/06/24	Soil														2					
	QC01	26/06/24	Soil				X				X						2					
	QC02	26/06/24	Soil				X										2					
	QC03	27/06/24	Soil														1					
	RB01	26/06/24	Water							X							1					
	RB02	27/06/24	Water							X							1					
	TB01	26/06/24	Water					X									2					
Add Rows				Total Counts		19	10	8	13	3	3	1	2	1			2	2	67			
Method of Shipment	Courier (if)		Hand Delivered		Name		Signature		Date		Time		Temperature									
Laboratory Use Only	Received By			YO BNE MEL PER ADL NTL DR	Signature			Date			Time											
Laboratory Use Only	Received By			YO BNE MEL PER ADL NTL DR	Signature			Date			Time	Report No										

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Eurofins ARL Pty Ltd

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Perth
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Eurofins ProMicro Pty Ltd

ABN: 47 009 120 549

Perth ProMicro
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NZBN: 9429046024954

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35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402

Sample Receipt Advice

Company name: Agon Environmental Pty Ltd - NT
Contact name: Varun Bhagwat
Project name: Soil Investigation
Project ID: JC1580
Turnaround time: 5 Day
Date/Time received: Jul 2, 2024 3:00 PM
Eurofins reference: 1113757

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Savini Suduweli on phone : +61 3 8564 5051 or by email: SaviniSuduweli@eurofins.com

Results will be delivered electronically via email to Varun Bhagwat - Varun.Bhagwat@agonenviro.com.au.

Note: A copy of these results will also be delivered to the general Agon Environmental Pty Ltd - NT email address.

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



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Varun Bhagwat**

Report **1113757-S**
Project name **Soil Investigation**
Project ID **JC1580**
Received Date **Jul 02, 2024**

Client Sample ID			BH01_0	BH03_0	A2_TP01_0	A2_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005541	M24-JI0005542	M24-JI0005543	M24-JI0005544
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	35
TRH C15-C28	50	mg/kg	79	110	66	240
TRH C29-C36	50	mg/kg	200	1300	240	1300
TRH C10-C36 (Total)	50	mg/kg	279	1410	306	1575
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	200	860	230	1100
TRH >C34-C40	100	mg/kg	380	2400	350	2400
TRH >C10-C40 (total)*	100	mg/kg	580	3260	580	3500
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	94	89	116	105
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH01_0	BH03_0	A2_TP01_0	A2_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005541	M24-JI0005542	M24-JI0005543	M24-JI0005544
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	102	86	84	111
p-Terphenyl-d14 (surr.)	1	%	79	93	98	68
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	79	61	44	49
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
	1	mg/kg	< 1	< 1	< 1	< 1
Heavy Metals						
Arsenic	2	mg/kg	< 2	4.3	16	18
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	8.2	12	14
Lead	5	mg/kg	5.3	6.7	22	24
Manganese	5	mg/kg	120	360	130	140
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	5.8	8.5	11
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	6.8	10.0	26	22

Client Sample ID			BH01_0	BH03_0	A2_TP01_0	A2_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005541	M24-JI0005542	M24-JI0005543	M24-JI0005544
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	11	< 1	4.5	3.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	92	89	88	89
13C5-PFPeA (surr.)	1	%	97	97	95	97
13C5-PFHxA (surr.)	1	%	96	94	94	90
13C4-PFHpA (surr.)	1	%	96	96	92	91
13C8-PFOA (surr.)	1	%	104	98	97	96
13C5-PFNA (surr.)	1	%	97	96	91	95
13C6-PFDA (surr.)	1	%	78	76	69	73
13C2-PFUnDA (surr.)	1	%	113	106	103	109
13C2-PFDoDA (surr.)	1	%	95	95	99	98
13C2-PFTeDA (surr.)	1	%	70	66	78	88
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	76	83	78	83
D3-N-MeFOSA (surr.)	1	%	108	100	98	99
D5-N-EtFOSA (surr.)	1	%	116	116	111	112
D7-N-MeFOSE (surr.)	1	%	112	108	104	104
D9-N-EtFOSE (surr.)	1	%	93	82	76	74
D5-N-EtFOSAA (surr.)	1	%	161	145	156	145
D3-N-MeFOSAA (surr.)	1	%	91	94	94	81
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			BH01_0	BH03_0	A2_TP01_0	A2_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005541	M24-JI0005542	M24-JI0005543	M24-JI0005544
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	88	85	84	85
18O2-PFHxS (surr.)	1	%	90	82	78	85
13C8-PFOS (surr.)	1	%	64	65	71	65
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	111	109	117	123
13C2-6:2 FTSA (surr.)	1	%	104	104	131	111
13C2-8:2 FTSA (surr.)	1	%	114	128	123	127
13C2-10:2 FTSA (surr.)	1	%	116	108	106	99
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			A2_TP05_0	A2_TP07_0	A3_TP01_0	A3_TP05_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005545	M24-JI0005546	M24-JI0005547	M24-JI0005548
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	94	< 20	170	< 20
TRH C15-C28	50	mg/kg	81	72	570	< 50
TRH C29-C36	50	mg/kg	960	360	1000	260
TRH C10-C36 (Total)	50	mg/kg	1135	432	1740	260
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	59	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	59	< 50
TRH >C16-C34	100	mg/kg	640	300	1100	190
TRH >C34-C40	100	mg/kg	1800	580	2100	500
TRH >C10-C40 (total)*	100	mg/kg	2440	880	3259	690
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	78	84	117

Client Sample ID			A2_TP05_0	A2_TP07_0	A3_TP01_0	A3_TP05_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005545	M24-JI0005546	M24-JI0005547	M24-JI0005548
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	91	87	70
p-Terphenyl-d14 (surr.)	1	%	113	147	136	77
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	63	50	89	61
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			A2_TP05_0	A2_TP07_0	A3_TP01_0	A3_TP05_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005545	M24-JI0005546	M24-JI0005547	M24-JI0005548
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.5	17	8.3	15
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Cobalt	5	mg/kg	< 5	6.2	< 5	< 5
Copper	5	mg/kg	7.5	16	7.4	9.1
Lead	5	mg/kg	15	30	14	16
Manganese	5	mg/kg	130	200	240	120
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.9	12	9.3	8.9
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	17	40	18	12
Sample Properties						
% Moisture	1	%	3.4	3.6	1.2	2.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	89	88	91	86
13C5-PFPeA (surr.)	1	%	97	95	98	91
13C5-PFHxA (surr.)	1	%	91	92	95	88
13C4-PFHpA (surr.)	1	%	92	90	93	86
13C8-PFOA (surr.)	1	%	95	96	99	92
13C5-PFNA (surr.)	1	%	93	95	95	93
13C6-PFDA (surr.)	1	%	78	74	76	73
13C2-PFUnDA (surr.)	1	%	108	106	108	98
13C2-PFDoDA (surr.)	1	%	101	102	104	98
13C2-PFTeDA (surr.)	1	%	98	107	105	96
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	82	85	86	79
D3-N-MeFOSA (surr.)	1	%	94	89	97	92

Client Sample ID			A2_TP05_0	A2_TP07_0	A3_TP01_0	A3_TP05_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005545	M24-JI0005546	M24-JI0005547	M24-JI0005548
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	111	107	115	105
D7-N-MeFOSE (surr.)	1	%	99	97	100	98
D9-N-EtFOSE (surr.)	1	%	75	69	74	70
D5-N-EtFOSAA (surr.)	1	%	134	142	158	141
D3-N-MeFOSAA (surr.)	1	%	80	81	82	78
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	86	86	87	80
18O2-PFHxS (surr.)	1	%	78	84	89	83
13C8-PFOS (surr.)	1	%	70	73	69	66
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	114	114	113	114
13C2-6:2 FTSA (surr.)	1	%	116	114	126	103
13C2-8:2 FTSA (surr.)	1	%	135	133	145	132
13C2-10:2 FTSA (surr.)	1	%	108	107	116	103
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			BH02_0	BH05_0.2	A2_TP02_0	A3_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005549	M24-JI0005550	M24-JI0005551	M24-JI0005552
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	110	170	120	< 20
TRH C15-C28	50	mg/kg	64	< 50	80	< 50
TRH C29-C36	50	mg/kg	1300	990	960	1300
TRH C10-C36 (Total)	50	mg/kg	1474	1160	1160	1300
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH02_0	BH05_0.2	A2_TP02_0	A3_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005549	M24-JI0005550	M24-JI0005551	M24-JI0005552
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	64	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	64	< 50	< 50
TRH >C16-C34	100	mg/kg	820	580	640	770
TRH >C34-C40	100	mg/kg	2600	2100	1900	2800
TRH >C10-C40 (total)*	100	mg/kg	3420	2744	2540	3570
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	107	88	105	72
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	98	93	85	70
p-Terphenyl-d14 (surr.)	1	%	71	88	130	59
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2,4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2,4,5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2,4,6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2,6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-

Client Sample ID			BH02_0	BH05_0.2	A2_TP02_0	A3_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005549	M24-JI0005550	M24-JI0005551	M24-JI0005552
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4,6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-
2,4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2,4-Dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
Total cresols*	0.5	mg/kg	-	< 0.5	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Phenol-d6 (surr.)	1	%	-	70	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	-	< 1	< 1
Cyanide (free)						
Cyanide (free)	5	mg/kg	< 5	-	< 5	< 5
Heavy Metals						
Arsenic	2	mg/kg	4.8	-	13	12
Beryllium	2	mg/kg	< 2	-	< 2	< 2
Boron	10	mg/kg	< 10	-	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	11	-	68	55
Cobalt	5	mg/kg	< 5	-	< 5	< 5
Copper	5	mg/kg	8.1	-	13	14
Lead	5	mg/kg	< 5	-	25	19
Manganese	5	mg/kg	220	-	120	140
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	7.2	-	9.8	22
Selenium	2	mg/kg	< 2	-	< 2	< 2
Zinc	5	mg/kg	15	-	23	19
Sample Properties						
% Moisture	1	%	12	3.6	3.7	2.5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	-	< 5	< 5
13C4-PFBA (surr.)	1	%	-	-	87	88
13C5-PFPeA (surr.)	1	%	-	-	93	95
13C5-PFHxA (surr.)	1	%	-	-	80	90
13C4-PFHpA (surr.)	1	%	-	-	90	89
13C8-PFOA (surr.)	1	%	-	-	92	94

Client Sample ID			BH02_0	BH05_0.2	A2_TP02_0	A3_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005549	M24-JI0005550	M24-JI0005551	M24-JI0005552
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFNA (surr.)	1	%	-	-	93	95
13C6-PFDA (surr.)	1	%	-	-	68	74
13C2-PFUnDA (surr.)	1	%	-	-	106	107
13C2-PFDoDA (surr.)	1	%	-	-	102	98
13C2-PFTeDA (surr.)	1	%	-	-	114	111
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	-	-	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	-	-	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	-	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	-	< 10	< 10
13C8-FOSA (surr.)	1	%	-	-	78	85
D3-N-MeFOSA (surr.)	1	%	-	-	94	91
D5-N-EtFOSA (surr.)	1	%	-	-	107	112
D7-N-MeFOSE (surr.)	1	%	-	-	102	101
D9-N-EtFOSE (surr.)	1	%	-	-	73	72
D5-N-EtFOSAA (surr.)	1	%	-	-	145	138
D3-N-MeFOSAA (surr.)	1	%	-	-	83	83
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	-	< 5	< 5
13C3-PFBS (surr.)	1	%	-	-	77	81
18O2-PFHxS (surr.)	1	%	-	-	82	81
13C8-PFOS (surr.)	1	%	-	-	61	69
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	-	-	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	160	115
13C2-6:2 FTSA (surr.)	1	%	-	-	127	114
13C2-8:2 FTSA (surr.)	1	%	-	-	130	136
13C2-10:2 FTSA (surr.)	1	%	-	-	114	115

Client Sample ID			BH02_0	BH05_0.2	A2_TP02_0	A3_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005549	M24-JI0005550	M24-JI0005551	M24-JI0005552
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			BH02_0	BH05_0.2	A2_TP02_0	A3_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005549	M24-JI0005550	M24-JI0005551	M24-JI0005552
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	107	-	105	72
Toluene-d8 (surr.)	1	%	96	-	87	67
Organochlorine Pesticides						
Bifenthrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Organophosphorus Pesticides						
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Polychlorinated Biphenyls						
Comments			G01		G01	G01
Aroclor-1016	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Aroclor-1221	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Aroclor-1232	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Aroclor-1242	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Aroclor-1248	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Aroclor-1254	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Aroclor-1260	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Total PCB*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Dibutylchloroendate (surr.)	1	%	84	-	94	148
Tetrachloro-m-xylene (surr.)	1	%	102	-	57	99
Triazines						
Atrazine	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
NEPM 2013 Acid Herbicides						
Picloram	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4-D	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Warfarin (surr.)	1	%	91	-	96	120
NEPM 2013 Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Mirex	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1

Client Sample ID			BH02_0	BH05_0.2	A2_TP02_0	A3_TP03_0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005549	M24-JI0005550	M24-JI0005551	M24-JI0005552
Date Sampled			Jun 27, 2024	Jun 27, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
NEPM 2013 Organochlorine Pesticides						
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibutylchloroendate (surr.)	1	%	84	-	94	148
Tetrachloro-m-xylene (surr.)	1	%	102	-	57	99
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
NEPM 2013 Phenols						
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Pentachlorophenol	1	mg/kg	< 1	-	< 1	< 1
Phenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	65	-	105	40

Client Sample ID			BH04_0	A2_TP02_0.5	A2_TP02_1.5	A2_TP03_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005553	M24-JI0005554	M24-JI0005555	M24-JI0005556
Date Sampled			Jun 27, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 100	< 20	< 20
TRH C10-C14	20	mg/kg	110	< 20	110	39
TRH C15-C28	50	mg/kg	< 50	71	220	140
TRH C29-C36	50	mg/kg	760	120	1400	1300
TRH C10-C36 (Total)	50	mg/kg	870	191	1730	1479
TRH C6-C10	20	mg/kg	< 20	< 100	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 100	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	410	150	1100	930
TRH >C34-C40	100	mg/kg	1700	160	2600	2400
TRH >C10-C40 (total)*	100	mg/kg	2110	310	3700	3330
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.5	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.5	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.5	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 1	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.5	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 1.5	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	96	94	85	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 2.5	< 0.5	< 0.5

Client Sample ID			BH04_0	A2_TP02_0.5	A2_TP02_1.5	A2_TP03_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005553	M24-JI0005554	M24-JI0005555	M24-JI0005556
Date Sampled			Jun 27, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	95	119	98	88
p-Terphenyl-d14 (surr.)	1	%	117	147	81	127
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	71	75	76	111
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Sample Properties						
% Moisture	1	%	< 1	3.9	6.0	5.4

Client Sample ID			BH04_0	A2_TP02_0.5	A2_TP02_1.5	A2_TP03_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005553	M24-JI0005554	M24-JI0005555	M24-JI0005556
Date Sampled			Jun 27, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 1	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.1	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	83	146	87	72
Tetrachloro-m-xylene (surr.)	1	%	117	134	103	96
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH04_0	A2_TP02_0.5	A2_TP02_1.5	A2_TP03_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005553	M24-JI0005554	M24-JI0005555	M24-JI0005556
Date Sampled			Jun 27, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	143	138	66	93
Polychlorinated Biphenyls						
Comments			G01	G01		G01
Aroclor-1016	0.1	mg/kg	< 0.2	< 1	< 0.2	< 0.2
Aroclor-1221	0.1	mg/kg	< 0.2	< 1	< 0.2	< 0.2
Aroclor-1232	0.1	mg/kg	< 0.2	< 1	< 0.2	< 0.2
Aroclor-1242	0.1	mg/kg	< 0.2	< 1	< 0.2	< 0.2
Aroclor-1248	0.1	mg/kg	< 0.2	< 1	< 0.2	< 0.2
Aroclor-1254	0.1	mg/kg	< 0.2	< 1	< 0.2	< 0.2
Aroclor-1260	0.1	mg/kg	< 0.2	< 1	< 0.2	< 0.2
Total PCB*	0.1	mg/kg	< 0.2	< 1	< 0.2	< 0.2
Dibutylchloroendate (surr.)	1	%	83	146	87	72
Tetrachloro-m-xylene (surr.)	1	%	117	134	103	96

Client Sample ID			A2_TP04_0	A2_TP06_0	A2_TP08_0	A2_TP03_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005557	M24-JI0005558	M24-JI0005559	M24-JI0005561
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	160	180	< 20	< 20
TRH C15-C28	50	mg/kg	110	130	< 50	< 50
TRH C29-C36	50	mg/kg	1300	1200	1400	220
TRH C10-C36 (Total)	50	mg/kg	1570	1510	1400	220
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	61	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	61	< 50	< 50
TRH >C16-C34	100	mg/kg	930	820	830	160
TRH >C34-C40	100	mg/kg	2500	2400	3000	390
TRH >C10-C40 (total)*	100	mg/kg	3430	3281	3830	550

Client Sample ID			A2_TP04_0	A2_TP06_0	A2_TP08_0	A2_TP03_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005557	M24-JI0005558	M24-JI0005559	M24-JI0005561
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	95	92	82	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	95	96	86	82
p-Terphenyl-d14 (surr.)	1	%	63	69	80	78
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			A2_TP04_0	A2_TP06_0	A2_TP08_0	A2_TP03_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005557	M24-JI0005558	M24-JI0005559	M24-JI0005561
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	59	68	54	77
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
	1	mg/kg	-	-	-	< 1
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	7.1
Beryllium	2	mg/kg	-	-	-	< 2
Boron	10	mg/kg	-	-	-	< 10
Cadmium	0.4	mg/kg	-	-	-	< 0.4
Cobalt	5	mg/kg	-	-	-	< 5
Copper	5	mg/kg	-	-	-	9.1
Lead	5	mg/kg	-	-	-	9.6
Manganese	5	mg/kg	-	-	-	140
Mercury	0.1	mg/kg	-	-	-	< 0.1
Nickel	5	mg/kg	-	-	-	< 5
Selenium	2	mg/kg	-	-	-	< 2
Zinc	5	mg/kg	-	-	-	12
Sample Properties						
% Moisture	1	%	2.8	4.6	3.2	8.1
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-

Client Sample ID			A2_TP04_0	A2_TP06_0	A2_TP08_0	A2_TP03_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005557	M24-JI0005558	M24-JI0005559	M24-JI0005561
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	104	60	103	-
Tetrachloro-m-xylene (surr.)	1	%	84	85	78	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Coumaphos	2	mg/kg	< 2	< 2	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Monocrotophos	2	mg/kg	< 2	< 2	< 2	-
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Omethoate	2	mg/kg	< 2	< 2	< 2	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Triphenylphosphate (surr.)	1	%	65	61	95	-
Polychlorinated Biphenyls						
Comments			G01	G01	G01	
Aroclor-1016	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-
Aroclor-1221	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-
Aroclor-1232	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-
Aroclor-1242	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-
Aroclor-1248	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-
Aroclor-1254	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-
Aroclor-1260	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-
Total PCB*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-

Client Sample ID			A2_TP04_0	A2_TP06_0	A2_TP08_0	A2_TP03_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005557	M24-JI0005558	M24-JI0005559	M24-JI0005561
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchloroendate (surr.)	1	%	104	60	103	-
Tetrachloro-m-xylene (surr.)	1	%	84	85	78	-

Client Sample ID			A3_TP07_0	QC01	QC02
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005562	M24-JI0005563	M24-JI0005564
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	-
TRH C10-C14	20	mg/kg	240	< 20	-
TRH C15-C28	50	mg/kg	< 50	280	-
TRH C29-C36	50	mg/kg	1800	2600	-
TRH C10-C36 (Total)	50	mg/kg	2040	2880	-
TRH C6-C10	20	mg/kg	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-
TRH >C10-C16	50	mg/kg	200	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	200	< 50	-
TRH >C16-C34	100	mg/kg	1000	1800	-
TRH >C34-C40	100	mg/kg	3800	4800	-
TRH >C10-C40 (total)*	100	mg/kg	5000	6600	-
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	82	102	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-

Client Sample ID			A3_TP07_0	QC01	QC02
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005562	M24-JI0005563	M24-JI0005564
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	103	75	-
p-Terphenyl-d14 (surr.)	1	%	82	74	-
Phenols (Halogenated)					
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	-
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	-
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	-
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	-
Pentachlorophenol	1	mg/kg	< 1	< 1	-
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	-
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	-
Phenols (non-Halogenated)					
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	-
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	-
2-Nitrophenol	1.0	mg/kg	< 1	< 1	-
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	-
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	-
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	-
4-Nitrophenol	5	mg/kg	< 5	< 5	-
Dinoseb	20	mg/kg	< 20	< 20	-
Phenol	0.5	mg/kg	< 0.5	< 0.5	-
Phenol-d6 (surr.)	1	%	62	47	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	-
Heavy Metals					
Arsenic	2	mg/kg	-	20	-
Cadmium	0.4	mg/kg	-	< 0.4	-
Chromium	5	mg/kg	-	76	-
Copper	5	mg/kg	-	8.2	-
Lead	5	mg/kg	-	20	-
Mercury	0.1	mg/kg	-	< 0.1	-
Nickel	5	mg/kg	-	6.9	-
Zinc	5	mg/kg	-	17	-
Sample Properties					
% Moisture	1	%	1.8	3.1	< 1
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5

Client Sample ID			A3_TP07_0	QC01	QC02
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005562	M24-JI0005563	M24-JI0005564
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	86	89	91
13C5-PFPeA (surr.)	1	%	92	96	95
13C5-PFHxA (surr.)	1	%	91	90	94
13C4-PFHpA (surr.)	1	%	92	89	94
13C8-PFOA (surr.)	1	%	94	93	94
13C5-PFNA (surr.)	1	%	90	92	94
13C6-PFDA (surr.)	1	%	71	69	77
13C2-PFUnDA (surr.)	1	%	105	102	103
13C2-PFDoDA (surr.)	1	%	98	101	102
13C2-PFTeDA (surr.)	1	%	105	104	111
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	80	76	87
D3-N-MeFOSA (surr.)	1	%	95	94	101
D5-N-EtFOSA (surr.)	1	%	110	108	116
D7-N-MeFOSE (surr.)	1	%	92	91	105
D9-N-EtFOSE (surr.)	1	%	77	71	79
D5-N-EtFOSAA (surr.)	1	%	133	144	137
D3-N-MeFOSAA (surr.)	1	%	77	88	82
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	90	85	81
18O2-PFHxS (surr.)	1	%	84	84	88
13C8-PFOS (surr.)	1	%	66	61	69

Client Sample ID			A3_TP07_0	QC01	QC02
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005562	M24-JI0005563	M24-JI0005564
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit			
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	116	112	109
13C2-6:2 FTSA (surr.)	1	%	133	115	120
13C2-8:2 FTSA (surr.)	1	%	130	125	133
13C2-10:2 FTSA (surr.)	1	%	106	115	97
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	121	-	-
Tetrachloro-m-xylene (surr.)	1	%	98	-	-

Client Sample ID			A3_TP07_0	QC01	QC02
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M24-JI0005562	M24-JI0005563	M24-JI0005564
Date Sampled			Jun 26, 2024	Jun 26, 2024	Jun 26, 2024
Test/Reference	LOR	Unit			
Organophosphorus Pesticides					
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-
Coumaphos	2	mg/kg	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-
EPN	0.2	mg/kg	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.2	-	-
Merphos	0.2	mg/kg	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-
Monocrotophos	2	mg/kg	< 2	-	-
Naled	0.2	mg/kg	< 0.2	-	-
Omethoate	2	mg/kg	< 2	-	-
Phorate	0.2	mg/kg	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	90	-	-
Polychlorinated Biphenyls					
Comments			G01		
Aroclor-1016	0.1	mg/kg	< 0.2	-	-
Aroclor-1221	0.1	mg/kg	< 0.2	-	-
Aroclor-1232	0.1	mg/kg	< 0.2	-	-
Aroclor-1242	0.1	mg/kg	< 0.2	-	-
Aroclor-1248	0.1	mg/kg	< 0.2	-	-
Aroclor-1254	0.1	mg/kg	< 0.2	-	-
Aroclor-1260	0.1	mg/kg	< 0.2	-	-
Total PCB*	0.1	mg/kg	< 0.2	-	-
Dibutylchloroendate (surr.)	1	%	121	-	-
Tetrachloro-m-xylene (surr.)	1	%	98	-	-

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B4A			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jul 03, 2024	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jul 03, 2024	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jul 03, 2024	14 Days
BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH	Melbourne	Jul 03, 2024	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jul 03, 2024	14 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jul 03, 2024	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jul 03, 2024	14 Days
NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding Methyl Mercury/PBDE			
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection	Melbourne	Jul 03, 2024	28 Days
Cyanide (free) - Method: LTM-INO-4020 Total Free WAD Cyanide by CFA	Melbourne	Jul 03, 2024	14 Days
NEPM 2013 Metals : Metals M12 - Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)	Melbourne	Jul 03, 2024	28 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Jul 03, 2024	28 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Jul 03, 2024	14 Days
Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)	Melbourne	Jul 03, 2024	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	Jul 03, 2024	28 Days
Triazines - Method: LTM-ORG-2210 Triazine Herbicides in Soil and Water by GC-MS/MS	Melbourne	Jul 03, 2024	14 Days
NEPM 2013 Acid Herbicides - Method: MGT 530	Melbourne	Jul 03, 2024	14 Days
NEPM 2013 Organochlorine Pesticides - Method: USEPA 8081 Organochlorine Pesticides	Melbourne	Jul 03, 2024	14 Days
NEPM 2013 Phenols - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jul 03, 2024	14 Days
Eurofins Suite B7A			
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Jul 03, 2024	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Jul 02, 2024	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Jul 03, 2024	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Jul 03, 2024	28 Days
Perfluoroalkyl sulfonic acids (PFSAAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Jul 03, 2024	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jul 03, 2024	28 Days

Description	Testing Site	Extracted	Holding Time
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) PFASs Summations	Melbourne	Jul 02, 2024	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) Volatile Organics	Melbourne	Jul 03, 2024	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			

DRAFT

Perth 46-48 Banksia Road | **Perth ProMicro** 46-48 Banksia Road | **Auckland** 35 O'Rourke Road | **Auckland (Focus)** Unit C/1/4 Pacific Rise, | **Christchurch** 43 Detroit Drive
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 Site# 2370 | Site# 2554 | IANZ# 1327 | IANZ# 1308 | IANZ# 1290 | IANZ# 1402

Order No.: JC 1113757 | **Received:** Jul 2, 2024 3:00 PM
Report #: 08 8338 1009 | **Due:** Jul 9, 2024
Phone: | **Priority:** 5 Day
Fax: | **Contact Name:** Varun Bhagwat

Company Name: Agon Environmental Pty Ltd - NT
Address: 3/224 Glen Osmond Road
 Fullarton SA 5063
Project Name: Soil Investigation
Project ID: JC:1580

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail		Melbourne Laboratory - NATA # 1261 Site # 1254																
External Laboratory		Internal Laboratory																
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	Per- and Polyfluoroalkyl Substances (PFASs)	Eurofins Suite B4A	Eurofins Suite B7A	Total Recoverable Hydrocarbons	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	Moisture Set	Volatile Organics	BTEX and Naphthalene	NEPM 2013 Metals : Metals M13	Eurofins Suite B15	Metals M8	HOLD	
1	BH01_0	Jun 27, 2024		Soil	M24-J10005541	X	X	X	X	X	X	X	X	X	X	X	X	X
2	BH03_0	Jun 27, 2024		Soil	M24-J10005542	X	X	X	X	X	X	X	X	X	X	X	X	X
3	A2_TP01_0	Jun 26, 2024		Soil	M24-J10005543	X	X	X	X	X	X	X	X	X	X	X	X	X
4	A2_TP03_0	Jun 26, 2024		Soil	M24-J10005544	X	X	X	X	X	X	X	X	X	X	X	X	X
5	A2_TP05_0	Jun 26, 2024		Soil	M24-J10005545	X	X	X	X	X	X	X	X	X	X	X	X	X
6	A2_TP07_0	Jun 26, 2024		Soil	M24-J10005546	X	X	X	X	X	X	X	X	X	X	X	X	X
7	A3_TP01_0	Jun 26, 2024		Soil	M24-J10005547	X	X	X	X	X	X	X	X	X	X	X	X	X
8	A3_TP05_0	Jun 26, 2024		Soil	M24-J10005548	X	X	X	X	X	X	X	X	X	X	X	X	X
9	BH02_0	Jun 27, 2024		Soil	M24-J10005549	X	X	X	X	X	X	X	X	X	X	X	X	X
10	BH05_0.2	Jun 27, 2024		Soil	M24-J10005550	X	X	X	X	X	X	X	X	X	X	X	X	X
11	A2_TP02_0	Jun 26, 2024		Soil	M24-J10005551	X	X	X	X	X	X	X	X	X	X	X	X	X
12	A3_TP03_0	Jun 26, 2024		Soil	M24-J10005552	X	X	X	X	X	X	X	X	X	X	X	X	X
13	BH04_0	Jun 27, 2024		Soil	M24-J10005553	X	X	X	X	X	X	X	X	X	X	X	X	X
14	A2_TP02_0.5	Jun 26, 2024		Soil	M24-J10005554	X	X	X	X	X	X	X	X	X	X	X	X	X

Company Name: Agon Environmental Pty Ltd - NT
Address: 3/224 Glen Osmond Road
 Fullarton
 SA 5063
Project Name: Soil Investigation
Project ID: JC:1580

Order No.: JC 1113757
Report #: 08 8338 1009
Phone:
Fax:

Received: Jul 2, 2024 3:00 PM
Due: Jul 9, 2024
Priority: 5 Day
Contact Name: Varun Bhagwat

Sample Detail		Per- and Polyfluoroalkyl Substances (PFASs)	Eurofins Suite B4A	Eurofins Suite B7A	Total Recoverable Hydrocarbons	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	Moisture Set	Volatile Organics	BTEX and Naphthalene	NEPM 2013 Metals : Metals M13	Eurofins Suite B15	Metals M8	HOLD
15	A2_TP02_1.5	Soil	X	X	X	X	X	X	X	X	X	X	X
16	A2_TP03_0.5	Soil	X	X	X	X	X	X	X	X	X	X	X
17	A2_TP04_0	Soil	X	X	X	X	X	X	X	X	X	X	X
18	A2_TP06_0	Soil	X	X	X	X	X	X	X	X	X	X	X
19	A2_TP08_0	Soil	X	X	X	X	X	X	X	X	X	X	X
20	A2_TP03_1	Soil	X	X	X	X	X	X	X	X	X	X	X
21	A3_TP07_0	Soil	X	X	X	X	X	X	X	X	X	X	X
22	QC01	Soil	X	X	X	X	X	X	X	X	X	X	X
23	QC02	Soil	X	X	X	X	X	X	X	X	X	X	X
24	RB01	Water	X	X	X	X	X	X	X	X	X	X	X
25	RB02	Water	X	X	X	X	X	X	X	X	X	X	X
26	TB01	Water	X	X	X	X	X	X	X	X	X	X	X
27	BH05_0.3	Soil	X	X	X	X	X	X	X	X	X	X	X
28	A2_TP01_0.2	Soil	X	X	X	X	X	X	X	X	X	X	X
29	A2_TP01_0.7	Soil	X	X	X	X	X	X	X	X	X	X	X
30	A2_TP01_1	Soil	X	X	X	X	X	X	X	X	X	X	X
31	A2_TP02_1.7	Soil	X	X	X	X	X	X	X	X	X	X	X



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

Project Name: Soil Investigation
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Received: Jul 2, 2024 3:00 PM
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Priority: 5 Day
Contact Name: Varun Bhagwat

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					
32	A3_TP02_0	Jun 26, 2024	Soil	M24-JI0005573	
33	A3_TP04_0	Jun 26, 2024	Soil	M24-JI0005574	
34	A3_TP06_0	Jun 26, 2024	Soil	M24-JI0005575	
35	A3_TP08_0	Jun 26, 2024	Soil	M24-JI0005576	
36	QC03	Jun 27, 2024	Soil	M24-JI0005577	
Test Counts					
Per- and Polyfluoroalkyl Substances (PFASs)				X	13
Eurofins Suite B4A				X	18
Eurofins Suite B7A				X	1
Total Recoverable Hydrocarbons				X	1
NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding				X	3
Moisture Set				X	23
Volatile Organics				X	3
BTEX and Naphthalene				X	1
NEPM 2013 Metals : Metals M13				X	9
Eurofins Suite B15				X	8
Metals M8				X	2
HOLD				X	10

Internal Quality Control Review and Glossary
General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	Colour: Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPaA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Beryllium	mg/kg	< 2			2	Pass	
Boron	mg/kg	< 10			10	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5		5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5		5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5		5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5		5	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10		10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5		5	Pass	
Method Blank						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	mg/kg	< 0.5		0.5	Pass	
Acenaphthylene	mg/kg	< 0.5		0.5	Pass	
Anthracene	mg/kg	< 0.5		0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5		0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5		0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5		0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Chrysene	mg/kg	< 0.5		0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5		0.5	Pass	
Fluoranthene	mg/kg	< 0.5		0.5	Pass	
Fluorene	mg/kg	< 0.5		0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5		0.5	Pass	
Naphthalene	mg/kg	< 0.5		0.5	Pass	
Phenanthrene	mg/kg	< 0.5		0.5	Pass	
Pyrene	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Phenols (Halogenated)						
2-Chlorophenol	mg/kg	< 0.5		0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1		1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1		1	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1		1	Pass	
Pentachlorophenol	mg/kg	< 1		1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10		10	Pass	
Method Blank						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20		20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5		5	Pass	
2-Nitrophenol	mg/kg	< 1		1.0	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5		0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5		5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2		0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4		0.4	Pass	
4-Nitrophenol	mg/kg	< 5		5	Pass	
Dinoseb	mg/kg	< 20		20	Pass	
Phenol	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Chromium (hexavalent)	mg/kg	< 1		1	Pass	
Method Blank						
Heavy Metals						

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Chromium	mg/kg	< 5		5	Pass	
Method Blank						
Volatile Organics						
1.1-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5		0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5		0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5		0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5		0.5	Pass	
Allyl chloride	mg/kg	< 0.5		0.5	Pass	
Bromobenzene	mg/kg	< 0.5		0.5	Pass	
Bromochloromethane	mg/kg	< 0.5		0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5		0.5	Pass	
Bromoform	mg/kg	< 0.5		0.5	Pass	
Bromomethane	mg/kg	< 0.5		0.5	Pass	
Carbon disulfide	mg/kg	< 0.5		0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5		0.5	Pass	
Chlorobenzene	mg/kg	< 0.5		0.5	Pass	
Chloroethane	mg/kg	< 0.5		0.5	Pass	
Chloroform	mg/kg	< 0.5		0.5	Pass	
Chloromethane	mg/kg	< 0.5		0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5		0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5		0.5	Pass	
Dibromomethane	mg/kg	< 0.5		0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5		0.5	Pass	
Iodomethane	mg/kg	< 0.5		0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5		0.5	Pass	
Methylene Chloride	mg/kg	< 0.5		0.5	Pass	
Styrene	mg/kg	< 0.5		0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5		0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5		0.5	Pass	
Trichloroethene	mg/kg	< 0.5		0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5		0.5	Pass	
Vinyl chloride	mg/kg	< 0.5		0.5	Pass	
Method Blank						
NEPM 2013 Acid Herbicides						
Picloram	mg/kg	< 0.5		0.5	Pass	
2.4-D	mg/kg	< 0.5		0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4.5-T	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	mg/kg	< 0.5		0.5	Pass	
Acenaphthylene	mg/kg	< 0.5		0.5	Pass	
Anthracene	mg/kg	< 0.5		0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5		0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5		0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5		0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Chrysene	mg/kg	< 0.5		0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5		0.5	Pass	
Fluoranthene	mg/kg	< 0.5		0.5	Pass	
Fluorene	mg/kg	< 0.5		0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5		0.5	Pass	
Naphthalene	mg/kg	< 0.5		0.5	Pass	
Phenanthrene	mg/kg	< 0.5		0.5	Pass	
Pyrene	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Phenols (Halogenated)						
2-Chlorophenol	mg/kg	< 0.5		0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1		1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1		1	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1		1	Pass	
Pentachlorophenol	mg/kg	< 1		1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10		10	Pass	
Method Blank						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20		20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5		5	Pass	
2-Nitrophenol	mg/kg	< 1		1.0	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5		0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5		5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2		0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4		0.4	Pass	
4-Nitrophenol	mg/kg	< 5		5	Pass	
Dinoseb	mg/kg	< 20		20	Pass	
Phenol	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Organochlorine Pesticides						
Bifenthrin	mg/kg	< 0.05		0.05	Pass	
Chlordanes - Total	mg/kg	< 0.1		0.1	Pass	
4,4'-DDD	mg/kg	< 0.05		0.05	Pass	
4,4'-DDE	mg/kg	< 0.05		0.05	Pass	
4,4'-DDT	mg/kg	< 0.05		0.05	Pass	
a-HCH	mg/kg	< 0.05		0.05	Pass	
Aldrin	mg/kg	< 0.05		0.05	Pass	
b-HCH	mg/kg	< 0.05		0.05	Pass	
d-HCH	mg/kg	< 0.05		0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1242	mg/kg	< 0.1		0.1	Pass	
Aroclor-1248	mg/kg	< 0.1		0.1	Pass	
Aroclor-1254	mg/kg	< 0.1		0.1	Pass	
Aroclor-1260	mg/kg	< 0.1		0.1	Pass	
Total PCB*	mg/kg	< 0.1		0.1	Pass	
Method Blank						
Triazines						
Atrazine	mg/kg	< 0.2		0.2	Pass	
Method Blank						
NEPM 2013 Organochlorine Pesticides						
Mirex	mg/kg	< 0.05		0.05	Pass	
Method Blank						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	mg/kg	< 0.5		0.5	Pass	
Acenaphthylene	mg/kg	< 0.5		0.5	Pass	
Anthracene	mg/kg	< 0.5		0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5		0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5		0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5		0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Chrysene	mg/kg	< 0.5		0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5		0.5	Pass	
Fluoranthene	mg/kg	< 0.5		0.5	Pass	
Fluorene	mg/kg	< 0.5		0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5		0.5	Pass	
Naphthalene	mg/kg	< 0.5		0.5	Pass	
Phenanthrene	mg/kg	< 0.5		0.5	Pass	
Pyrene	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Phenols (Halogenated)						
2-Chlorophenol	mg/kg	< 0.5		0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1		1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1		1	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1		1	Pass	
Pentachlorophenol	mg/kg	< 1		1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10		10	Pass	
Method Blank						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20		20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5		5	Pass	
2-Nitrophenol	mg/kg	< 1		1.0	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5		0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5		5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2		0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4		0.4	Pass	
4-Nitrophenol	mg/kg	< 5		5	Pass	
Dinoseb	mg/kg	< 20		20	Pass	
Phenol	mg/kg	< 0.5		0.5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons						
TRH C10-C14	%	79		70-130	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
TRH >C10-C16	%	74		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	104		80-120	Pass	
Beryllium	%	111		80-120	Pass	
Boron	%	113		80-120	Pass	
Cadmium	%	118		80-120	Pass	
Chromium	%	112		80-120	Pass	
Cobalt	%	112		80-120	Pass	
Copper	%	103		80-120	Pass	
Lead	%	115		80-120	Pass	
Manganese	%	109		80-120	Pass	
Mercury	%	108		80-120	Pass	
Nickel	%	101		80-120	Pass	
Selenium	%	103		80-120	Pass	
Zinc	%	101		80-120	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	88		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	98		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	101		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	88		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	85		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	86		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	90		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	92		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	87		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	110		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	91		50-150	Pass	
LCS - % Recovery						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	%	95		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	96		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	92		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	97		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	80		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	88		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	87		50-150	Pass	
LCS - % Recovery						
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)	%	87		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	117		50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	94		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	83		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	86		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	75		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	86		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	119		50-150	Pass	
LCS - % Recovery						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	84		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	83		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	85		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	93		50-150	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery						
Phenols (non-Halogenated)						
2,4-Dinitrophenol	%	30		25-140	Pass	
LCS - % Recovery						
Chromium (hexavalent)	%	127		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Chromium	%	111		80-120	Pass	
LCS - % Recovery						
Volatile Organics						
1,1-Dichloroethene	%	106		70-130	Pass	
1,2-Dichlorobenzene	%	105		70-130	Pass	
1,2-Dichloroethane	%	100		70-130	Pass	
Trichloroethene	%	119		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
4,4'-DDD	%	71		70-130	Pass	
LCS - % Recovery						
NEPM 2013 Acid Herbicides						
Picloram	%	72		70-130	Pass	
2,4-D	%	85		70-130	Pass	
2,4,5-T	%	75		70-130	Pass	
MCPA	%	73		70-130	Pass	
MCPB	%	71		70-130	Pass	
Mecoprop	%	75		70-130	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	89		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	100		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	102		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	89		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	86		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	84		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	90		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	93		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	90		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	93		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	92		50-150	Pass	
LCS - % Recovery						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	%	94		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	90		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	88		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	96		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	83		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	93		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	92		50-150	Pass	
LCS - % Recovery						
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)	%	91		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	115		50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	98		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	83		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	88		50-150	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	%	81		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	87		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	122		50-150	Pass	
LCS - % Recovery						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	93		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	86		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	88		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	83		50-150	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons						
TRH C6-C9	%	108		70-130	Pass	
TRH C6-C10	%	103		70-130	Pass	
LCS - % Recovery						
BTEX						
Benzene	%	93		70-130	Pass	
Toluene	%	98		70-130	Pass	
Ethylbenzene	%	100		70-130	Pass	
m&p-Xylenes	%	99		70-130	Pass	
Xylenes - Total*	%	102		70-130	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	%	88		70-130	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	77		70-130	Pass	
Acenaphthylene	%	82		70-130	Pass	
Anthracene	%	76		70-130	Pass	
Benz(a)anthracene	%	74		70-130	Pass	
Benzo(a)pyrene	%	75		70-130	Pass	
Benzo(b&j)fluoranthene	%	98		70-130	Pass	
Benzo(g,h,i)perylene	%	99		70-130	Pass	
Benzo(k)fluoranthene	%	105		70-130	Pass	
Chrysene	%	79		70-130	Pass	
Dibenz(a,h)anthracene	%	84		70-130	Pass	
Fluoranthene	%	81		70-130	Pass	
Fluorene	%	81		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	76		70-130	Pass	
Naphthalene	%	77		70-130	Pass	
Phenanthrene	%	75		70-130	Pass	
Pyrene	%	73		70-130	Pass	
LCS - % Recovery						
Phenols (Halogenated)						
2-Chlorophenol	%	85		25-140	Pass	
2,4-Dichlorophenol	%	86		25-140	Pass	
2,4,5-Trichlorophenol	%	82		25-140	Pass	
2,4,6-Trichlorophenol	%	78		25-140	Pass	
2,6-Dichlorophenol	%	74		25-140	Pass	
4-Chloro-3-methylphenol	%	87		25-140	Pass	
Pentachlorophenol	%	59		25-140	Pass	
Tetrachlorophenols - Total	%	65		25-140	Pass	
LCS - % Recovery						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	%	44		25-140	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
2-Methyl-4.6-dinitrophenol	%	54		25-140	Pass	
2-Nitrophenol	%	75		25-140	Pass	
2.4-Dimethylphenol	%	58		25-140	Pass	
2-Methylphenol (o-Cresol)	%	97		25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	91		25-140	Pass	
4-Nitrophenol	%	82		25-140	Pass	
Dinoseb	%	76		25-140	Pass	
Phenol	%	103		25-140	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
Bifenthrin	%	88		70-130	Pass	
Chlordanes - Total	%	96		70-130	Pass	
4.4'-DDE	%	89		70-130	Pass	
4.4'-DDT	%	86		70-130	Pass	
a-HCH	%	76		70-130	Pass	
Aldrin	%	81		70-130	Pass	
b-HCH	%	96		70-130	Pass	
d-HCH	%	85		70-130	Pass	
Dieldrin	%	108		70-130	Pass	
Endosulfan I	%	86		70-130	Pass	
Endosulfan II	%	84		70-130	Pass	
Endosulfan sulphate	%	79		70-130	Pass	
Endrin	%	100		70-130	Pass	
Endrin aldehyde	%	108		70-130	Pass	
Endrin ketone	%	105		70-130	Pass	
g-HCH (Lindane)	%	73		70-130	Pass	
Heptachlor	%	96		70-130	Pass	
Heptachlor epoxide	%	112		70-130	Pass	
Hexachlorobenzene	%	98		70-130	Pass	
Methoxychlor	%	87		70-130	Pass	
LCS - % Recovery						
Organophosphorus Pesticides						
Diazinon	%	84		70-130	Pass	
Dimethoate	%	101		70-130	Pass	
Ethion	%	73		70-130	Pass	
Fenitrothion	%	80		70-130	Pass	
Methyl parathion	%	99		70-130	Pass	
Mevinphos	%	76		70-130	Pass	
LCS - % Recovery						
Polychlorinated Biphenyls						
Aroclor-1260	%	101		70-130	Pass	
LCS - % Recovery						
NEPM 2013 Organochlorine Pesticides						
Mirex	%	84		70-130	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	123		70-130	Pass	
Acenaphthylene	%	102		70-130	Pass	
Anthracene	%	105		70-130	Pass	
Benz(a)anthracene	%	109		70-130	Pass	
Benzo(a)pyrene	%	104		70-130	Pass	
Benzo(b&i)fluoranthene	%	110		70-130	Pass	
Benzo(g,h,i)perylene	%	97		70-130	Pass	
Benzo(k)fluoranthene	%	95		70-130	Pass	

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code		
Chrysene	%	108	70-130	Pass			
Dibenz(a,h)anthracene	%	99	70-130	Pass			
Fluoranthene	%	109	70-130	Pass			
Fluorene	%	106	70-130	Pass			
Indeno(1.2.3-cd)pyrene	%	103	70-130	Pass			
Naphthalene	%	108	70-130	Pass			
Phenanthrene	%	95	70-130	Pass			
Pyrene	%	122	70-130	Pass			
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	107	25-140	Pass			
2.4-Dichlorophenol	%	55	25-140	Pass			
2.4.5-Trichlorophenol	%	61	25-140	Pass			
2.4.6-Trichlorophenol	%	102	25-140	Pass			
2.6-Dichlorophenol	%	79	25-140	Pass			
4-Chloro-3-methylphenol	%	120	25-140	Pass			
Pentachlorophenol	%	50	25-140	Pass			
Tetrachlorophenols - Total	%	89	25-140	Pass			
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	39	25-140	Pass			
2-Methyl-4.6-dinitrophenol	%	41	25-140	Pass			
2-Nitrophenol	%	106	25-140	Pass			
2.4-Dimethylphenol	%	61	25-140	Pass			
2-Methylphenol (o-Cresol)	%	112	25-140	Pass			
3&4-Methylphenol (m&p-Cresol)	%	128	25-140	Pass			
4-Nitrophenol	%	66	25-140	Pass			
Dinoseb	%	61	25-140	Pass			
Phenol	%	103	25-140	Pass			
Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery							
Total Recoverable Hydrocarbons				Result 1			
TRH C10-C14	M24-JI0012576	NCP	%	75	70-130	Pass	
TRH >C10-C16	M24-JI0012576	NCP	%	71	70-130	Pass	
Spike - % Recovery							
Polycyclic Aromatic Hydrocarbons				Result 1			
Acenaphthene	M24-JI0008369	NCP	%	92	70-130	Pass	
Acenaphthylene	M24-JI0008369	NCP	%	80	70-130	Pass	
Anthracene	M24-JI0008369	NCP	%	77	70-130	Pass	
Benz(a)anthracene	M24-JI0008369	NCP	%	114	70-130	Pass	
Benzo(a)pyrene	M24-JI0008369	NCP	%	99	70-130	Pass	
Benzo(b&j)fluoranthene	M24-JI0008369	NCP	%	99	70-130	Pass	
Benzo(g,h,i)perylene	M24-JI0008369	NCP	%	97	70-130	Pass	
Benzo(k)fluoranthene	M24-JI0008369	NCP	%	90	70-130	Pass	
Chrysene	M24-JI0008369	NCP	%	100	70-130	Pass	
Dibenz(a,h)anthracene	M24-JI0008369	NCP	%	84	70-130	Pass	
Fluoranthene	M24-JI0008369	NCP	%	100	70-130	Pass	
Fluorene	M24-JI0008369	NCP	%	96	70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-JI0008369	NCP	%	84	70-130	Pass	
Naphthalene	M24-JI0008369	NCP	%	95	70-130	Pass	
Phenanthrene	M24-JI0008369	NCP	%	91	70-130	Pass	
Pyrene	M24-JI0008369	NCP	%	97	70-130	Pass	
Spike - % Recovery							
Phenols (Halogenated)				Result 1			

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
2-Chlorophenol	M24-JI0008369	NCP	%	86		30-130	Pass	
2.4-Dichlorophenol	M24-JI0008369	NCP	%	59		30-130	Pass	
2.4.5-Trichlorophenol	M24-JI0008369	NCP	%	100		30-130	Pass	
2.4.6-Trichlorophenol	M24-JI0008369	NCP	%	101		30-130	Pass	
2.6-Dichlorophenol	M24-JI0008369	NCP	%	80		30-130	Pass	
4-Chloro-3-methylphenol	M24-JI0008369	NCP	%	104		30-130	Pass	
Pentachlorophenol	M24-JI0008369	NCP	%	110		30-130	Pass	
Tetrachlorophenols - Total	M24-JI0008369	NCP	%	96		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Cyclohexyl-4.6-dinitrophenol	M24-JI0008369	NCP	%	119		30-130	Pass	
2-Methyl-4.6-dinitrophenol	M24-JI0008369	NCP	%	129		30-130	Pass	
2-Nitrophenol	M24-JI0008369	NCP	%	96		30-130	Pass	
2.4-Dimethylphenol	M24-JI0008369	NCP	%	55		30-130	Pass	
2.4-Dinitrophenol	M24-JI0008369	NCP	%	50		30-130	Pass	
2-Methylphenol (o-Cresol)	M24-JI0008369	NCP	%	57		30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-JI0008369	NCP	%	63		30-130	Pass	
4-Nitrophenol	M24-JI0008369	NCP	%	112		30-130	Pass	
Dinoseb	M24-JI0008369	NCP	%	102		30-130	Pass	
Phenol	M24-JI0008369	NCP	%	78		30-130	Pass	
Spike - % Recovery								
				Result 1				
Chromium (hexavalent)	M24-JI0006074	NCP	%	71		70-130	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	M24-JI0004252	NCP	%	101		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-JI0004252	NCP	%	119		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-JI0004252	NCP	%	115		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-JI0004252	NCP	%	97		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M24-JI0004252	NCP	%	95		50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-JI0004252	NCP	%	96		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-JI0004252	NCP	%	104		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-JI0004252	NCP	%	99		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-JI0004252	NCP	%	102		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M24-JI0004252	NCP	%	103		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-JI0004252	NCP	%	103		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				
Perfluorooctane sulfonamide (FOSA)	M24-JI0004252	NCP	%	96		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-JI0004252	NCP	%	99		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-JI0004252	NCP	%	96		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-JI0004252	NCP	%	104		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-JI0004252	NCP	%	92		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-JI0004252	NCP	%	97		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-JI0004252	NCP	%	95		50-150	Pass	
Spike - % Recovery								

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1				
Perfluorobutanesulfonic acid (PFBS)	M24-JI0004252	NCP	%	98		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-JI0004252	NCP	%	119		50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-JI0004252	NCP	%	106		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-JI0004252	NCP	%	87		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-JI0004252	NCP	%	106		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-JI0004252	NCP	%	88		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-JI0004252	NCP	%	99		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-JI0004252	NCP	%	123		50-150	Pass	
Spike - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-JI0004252	NCP	%	96		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-JI0004252	NCP	%	104		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-JI0004252	NCP	%	94		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-JI0004252	NCP	%	92		50-150	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	M24-JI0008004	NCP	%	88		70-130	Pass	
1.2-Dichlorobenzene	M24-JI0008004	NCP	%	98		70-130	Pass	
1.2-Dichloroethane	M24-JI0008004	NCP	%	106		70-130	Pass	
Trichloroethene	M24-JI0008004	NCP	%	109		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Bifenthrin	M24-JI0006280	NCP	%	91		70-130	Pass	
Chlordanes - Total	M24-JI0006280	NCP	%	121		70-130	Pass	
4.4'-DDD	M24-JI0006280	NCP	%	127		70-130	Pass	
4.4'-DDE	M24-JI0006280	NCP	%	113		70-130	Pass	
4.4'-DDT	M24-JI0006280	NCP	%	120		70-130	Pass	
Aldrin	M24-JI0006280	NCP	%	125		70-130	Pass	
Dieldrin	M24-JI0006280	NCP	%	95		70-130	Pass	
Endosulfan I	M24-JI0006280	NCP	%	97		70-130	Pass	
Endosulfan II	M24-JI0006280	NCP	%	110		70-130	Pass	
Endosulfan sulphate	M24-JI0006280	NCP	%	111		70-130	Pass	
Endrin	M24-JI0006280	NCP	%	99		70-130	Pass	
Heptachlor	M24-JI0006280	NCP	%	107		70-130	Pass	
Hexachlorobenzene	M24-JI0006280	NCP	%	112		70-130	Pass	
Methoxychlor	M24-JI0006280	NCP	%	104		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	M24-Jn0072275	NCP	%	86		70-130	Pass	
Aroclor-1260	M24-Jn0072275	NCP	%	117		70-130	Pass	
Spike - % Recovery								
NEPM 2013 Acid Herbicides				Result 1				
Picloram	M24-JI0008027	NCP	%	107		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
2,4-D	M24-JI0008027	NCP	%	113		70-130	Pass	
MCPA	M24-JI0008027	NCP	%	99		70-130	Pass	
MCPB	M24-JI0008027	NCP	%	114		70-130	Pass	
Spike - % Recovery								
NEPM 2013 Organochlorine Pesticides				Result 1				
Mirex	M24-JI0006280	NCP	%	110		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	M24-JI0005551	CP	%	100		75-125	Pass	
Beryllium	M24-JI0005551	CP	%	103		75-125	Pass	
Boron	M24-JI0005551	CP	%	107		75-125	Pass	
Cadmium	M24-JI0005551	CP	%	116		75-125	Pass	
Chromium	M24-JI0005551	CP	%	73		75-125	Fail	Q08
Cobalt	M24-JI0005551	CP	%	111		75-125	Pass	
Copper	M24-JI0005551	CP	%	98		75-125	Pass	
Lead	M24-JI0005551	CP	%	109		75-125	Pass	
Manganese	M24-JI0005551	CP	%	103		75-125	Pass	
Mercury	M24-JI0005551	CP	%	104		75-125	Pass	
Nickel	M24-JI0005551	CP	%	99		75-125	Pass	
Selenium	M24-JI0005551	CP	%	98		75-125	Pass	
Zinc	M24-JI0005551	CP	%	107		75-125	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
a-HCH	M24-JI0004579	NCP	%	91		70-130	Pass	
b-HCH	M24-JI0004579	NCP	%	108		70-130	Pass	
d-HCH	M24-JI0004579	NCP	%	92		70-130	Pass	
Endrin aldehyde	M24-JI0004579	NCP	%	119		70-130	Pass	
Endrin ketone	M24-JI0004579	NCP	%	72		70-130	Pass	
g-HCH (Lindane)	M24-JI0004579	NCP	%	88		70-130	Pass	
Heptachlor epoxide	M24-JI0004579	NCP	%	110		70-130	Pass	
Spike - % Recovery								
Organophosphorus Pesticides				Result 1				
Diazinon	M24-JI0007880	NCP	%	98		70-130	Pass	
Dimethoate	M24-JI0007880	NCP	%	78		70-130	Pass	
Ethion	M24-JI0007880	NCP	%	88		70-130	Pass	
Fenitrothion	M24-JI0007880	NCP	%	84		70-130	Pass	
Methyl parathion	M24-JI0007880	NCP	%	83		70-130	Pass	
Mevinphos	M24-JI0007880	NCP	%	76		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	M24-JI0005555	CP	%	110		70-130	Pass	
TRH C6-C10	M24-JI0005555	CP	%	108		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	M24-JI0005555	CP	%	93		70-130	Pass	
Toluene	M24-JI0005555	CP	%	98		70-130	Pass	
Ethylbenzene	M24-JI0005555	CP	%	99		70-130	Pass	
m&p-Xylenes	M24-JI0005555	CP	%	99		70-130	Pass	
o-Xylene	M24-JI0005555	CP	%	108		70-130	Pass	
Xylenes - Total*	M24-JI0005555	CP	%	102		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	M24-JI0005555	CP	%	93		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M24-JI0008033	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-JI0005542	CP	mg/kg	4.3	4.4	1.0	30%	Pass	
Beryllium	M24-JI0005542	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M24-JI0005542	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M24-JI0005542	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-JI0005542	CP	mg/kg	17	18	1.7	30%	Pass	
Cobalt	M24-JI0005542	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M24-JI0005542	CP	mg/kg	8.2	7.4	9.5	30%	Pass	
Lead	M24-JI0005542	CP	mg/kg	6.7	6.8	2.5	30%	Pass	
Mercury	M24-JI0005542	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-JI0005542	CP	mg/kg	5.8	7.7	27	30%	Pass	
Selenium	M24-JI0005542	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Zinc	M24-JI0005542	CP	mg/kg	10.0	13	27	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-JI0005543	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M24-JI0005543	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-JI0005543	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-JI0005543	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-JI0005543	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-JI0005543	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-JI0005543	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-JI0005543	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-JI0005543	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-JI0005548	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-JI0005548	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-JI0005548	CP	mg/kg	260	320	19	30%	Pass	
TRH >C10-C16	M24-JI0005548	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-JI0005548	CP	mg/kg	190	240	25	30%	Pass	
TRH >C34-C40	M24-JI0005548	CP	mg/kg	500	580	16	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Indeno(1.2.3-cd)pyrene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-Dichlorophenol	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-Trichlorophenol	M24-JI0005548	CP	mg/kg	< 1	< 1	<1	30%	Pass
2.4.6-Trichlorophenol	M24-JI0005548	CP	mg/kg	< 1	< 1	<1	30%	Pass
2.6-Dichlorophenol	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M24-JI0005548	CP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M24-JI0005548	CP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M24-JI0005548	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4.6-dinitrophenol	M24-JI0005548	CP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4.6-dinitrophenol	M24-JI0005548	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M24-JI0005548	CP	mg/kg	< 1	< 1	<1	30%	Pass
2.4-Dimethylphenol	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-Dinitrophenol	M24-JI0005548	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M24-JI0005548	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M24-JI0005548	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M24-JI0005548	CP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M24-JI0005548	CP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M24-JI0005548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Carbon disulfide	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M24-JI0008030	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
NEPM 2013 Acid Herbicides				Result 1	Result 2	RPD			
Picloram	M24-JI0008007	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-D	M24-JI0008007	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	M24-JI0008007	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPA	M24-JI0008007	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPB	M24-JI0008007	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mecoprop	M24-JI0008007	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-JI0005551	CP	mg/kg	13	13	1.0	30%	Pass	
Beryllium	M24-JI0005551	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M24-JI0005551	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M24-JI0005551	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M24-JI0005551	CP	mg/kg	68	68	<1	30%	Pass	
Cobalt	M24-JI0005551	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M24-JI0005551	CP	mg/kg	13	13	<1	30%	Pass	
Lead	M24-JI0005551	CP	mg/kg	25	24	1.3	30%	Pass	
Manganese	M24-JI0005551	CP	mg/kg	120	130	2.0	30%	Pass	
Mercury	M24-JI0005551	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M24-JI0005551	CP	mg/kg	9.8	9.8	<1	30%	Pass	
Selenium	M24-JI0005551	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Zinc	M24-JI0005551	CP	mg/kg	23	23	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M24-JI0005552	CP	mg/kg	< 20	47	86	30%	Fail	Q15
TRH C15-C28	M24-JI0005552	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-JI0005552	CP	mg/kg	1300	1200	9.4	30%	Pass	
TRH >C10-C16	M24-JI0005552	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-JI0005552	CP	mg/kg	770	660	15	30%	Pass	
TRH >C34-C40	M24-JI0005552	CP	mg/kg	2800	2600	4.6	30%	Pass	

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-JI0005552	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-JI0005552	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-JI0005552	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-JI0005552	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate										
Total Recoverable Hydrocarbons					Result 1	Result 2	RPD			
TRH C10-C14	M24-JI0005553	CP	mg/kg		110	98	12	30%	Pass	
TRH C15-C28	M24-JI0005553	CP	mg/kg		< 50	55	170	30%	Fail	Q15
TRH C29-C36	M24-JI0005553	CP	mg/kg		760	860	12	30%	Pass	
TRH >C10-C16	M24-JI0005553	CP	mg/kg		< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M24-JI0005553	CP	mg/kg		410	520	23	30%	Pass	
TRH >C34-C40	M24-JI0005553	CP	mg/kg		1700	1800	9.2	30%	Pass	
Duplicate										
Polycyclic Aromatic Hydrocarbons					Result 1	Result 2	RPD			
Acenaphthene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)anthracene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Duplicate										
Phenols (Halogenated)					Result 1	Result 2	RPD			
2-Chlorophenol	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
2,4-Dichlorophenol	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
2,4,5-Trichlorophenol	M24-JI0005553	CP	mg/kg		< 1	< 1	<1	30%	Pass	
2,4,6-Trichlorophenol	M24-JI0005553	CP	mg/kg		< 1	< 1	<1	30%	Pass	
2,6-Dichlorophenol	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M24-JI0005553	CP	mg/kg		< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M24-JI0005553	CP	mg/kg		< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M24-JI0005553	CP	mg/kg		< 10	< 10	<1	30%	Pass	
Duplicate										
Phenols (non-Halogenated)					Result 1	Result 2	RPD			
2-Cyclohexyl-4,6-dinitrophenol	M24-JI0005553	CP	mg/kg		< 20	< 20	<1	30%	Pass	
2-Methyl-4,6-dinitrophenol	M24-JI0005553	CP	mg/kg		< 5	< 5	<1	30%	Pass	
2-Nitrophenol	M24-JI0005553	CP	mg/kg		< 1	< 1	<1	30%	Pass	
2,4-Dimethylphenol	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
2,4-Dinitrophenol	M24-JI0005553	CP	mg/kg		< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M24-JI0005553	CP	mg/kg		< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-JI0005553	CP	mg/kg		< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M24-JI0005553	CP	mg/kg		< 5	< 5	<1	30%	Pass	
Dinoseb	M24-JI0005553	CP	mg/kg		< 20	< 20	<1	30%	Pass	
Phenol	M24-JI0005553	CP	mg/kg		< 0.5	< 0.5	<1	30%	Pass	
Duplicate										
Organochlorine Pesticides					Result 1	Result 2	RPD			
Bifenthrin	M24-JI0005553	CP	mg/kg		< 0.05	< 0.05	<1	30%	Pass	
Chlordanes - Total	M24-JI0005553	CP	mg/kg		< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	M24-JI0005553	CP	mg/kg		< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	M24-JI0005553	CP	mg/kg		< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	M24-JI0005553	CP	mg/kg		< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M24-JI0005553	CP	mg/kg		< 0.05	< 0.05	<1	30%	Pass	

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Aldrin	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Chlorpyrifos	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Azinphos-methyl	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	M24-JI0005553	CP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfthion	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	M24-JI0005553	CP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	M24-JI0005553	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Triazines				Result 1	Result 2	RPD		
Atrazine	M24-JI0005553	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
NEPM 2013 Organochlorine Pesticides				Result 1	Result 2	RPD		
Mirex	M24-JI0005553	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	M24-JI0005556	CP	%	5.4	5.0	7.1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M24-JI0005557	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M24-JI0005557	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M24-JI0005557	CP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M24-JI0005557	CP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M24-JI0005557	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M24-JI0005557	CP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M24-JI0005557	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M24-JI0005557	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M24-JI0005557	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M24-JI0005557	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M24-JI0005557	CP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M24-JI0005557	CP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Bifenthrin	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Chlordanes - Total	M24-JI0005557	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
d-HCH	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M24-JI0005557	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Chlorpyrifos	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Azinphos-methyl	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	M24-JI0005557	CP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfthion	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	M24-JI0005557	CP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	M24-JI0005557	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Aroclor-1221	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Aroclor-1232	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Aroclor-1242	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Aroclor-1248	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Aroclor-1254	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Aroclor-1260	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Total PCB*	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Triazines				Result 1	Result 2	RPD		
Atrazine	M24-JI0005557	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
NEPM 2013 Organochlorine Pesticides				Result 1	Result 2	RPD		
Mirex	M24-JI0005557	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	M24-JI0005561	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C10-C14	M24-JI0005561	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M24-JI0005561	CP	mg/kg	< 50	81	1.2	30%	Pass
TRH C29-C36	M24-JI0005561	CP	mg/kg	220	350	9.5	30%	Pass
TRH C6-C10	M24-JI0005561	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	M24-JI0005561	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M24-JI0005561	CP	mg/kg	160	300	5.2	30%	Pass
TRH >C34-C40	M24-JI0005561	CP	mg/kg	390	550	14	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	M24-JI0005561	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	M24-JI0005561	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	M24-JI0005561	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	M24-JI0005561	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	M24-JI0005561	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	M24-JI0005561	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M24-JI0005561	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M24-JI0005561	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M24-JI0005561	CP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M24-JI0005561	CP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M24-JI0005561	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M24-JI0005561	CP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M24-JI0005561	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M24-JI0005561	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M24-JI0005561	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M24-JI0005561	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M24-JI0005561	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M24-JI0005561	CP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M24-JI0005561	CP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M24-JI0005561	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

DRAFT

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Savini Suduweli	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Inorganic
Carroll Lee	Senior Analyst-Organic
Edward Lee	Senior Analyst-Organic
Emily Rosenberg	Senior Analyst-Metal
Harry Bacalis	Senior Analyst-Volatile
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Varun Bhagwat**

Report **1113757-W**
Project name **Soil Investigation**
Project ID **JC1580**
Received Date **Jul 02, 2024**

Client Sample ID			RB01	RB02	TB01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			M24-JI0005565	M24-JI0005566	M24-JI0005567
Date Sampled			Jun 26, 2024	Jun 27, 2024	Jun 27, 2024
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	0.001	mg/L	< 0.001	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	< 0.001	-
Copper	0.001	mg/L	< 0.001	< 0.001	-
Lead	0.001	mg/L	< 0.001	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	< 0.001	-
Zinc	0.005	mg/L	< 0.005	< 0.005	-
Total Recoverable Hydrocarbons					
TRH C6-C9	0.02	mg/L	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	-	-	< 0.1
TRH C6-C10	0.02	mg/L	-	-	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	-	-	< 0.1
BTEX					
Benzene	0.001	mg/L	-	-	< 0.001
Toluene	0.001	mg/L	-	-	< 0.001
Ethylbenzene	0.001	mg/L	-	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	-	< 0.002
o-Xylene	0.001	mg/L	-	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	-	100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene ^{N02}	0.01	mg/L	-	-	< 0.01

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B7A			
Metals M8	Melbourne	Jul 03, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B4A			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jul 03, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jul 03, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jul 03, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Jul 03, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			

DRAFT

Company Name: Agon Environmental Pty Ltd - NT
Address: 3/224 Glen Osmond Road, Fullarton SA 5063
Project Name: Soil Investigation
Project ID: JC:1580

Order No.: JC 1113757
Report #: 08 8338 1009
Phone:
Fax:

Received: Jul 2, 2024 3:00 PM
Due: Jul 9, 2024
Priority: 5 Day
Contact Name: Varun Bhagwat

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254		External Laboratory			
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID
1	BH01_0	Jun 27, 2024		Soil	M24-JI0005541
2	BH03_0	Jun 27, 2024		Soil	M24-JI0005542
3	A2_TP01_0	Jun 26, 2024		Soil	M24-JI0005543
4	A2_TP03_0	Jun 26, 2024		Soil	M24-JI0005544
5	A2_TP05_0	Jun 26, 2024		Soil	M24-JI0005545
6	A2_TP07_0	Jun 26, 2024		Soil	M24-JI0005546
7	A3_TP01_0	Jun 26, 2024		Soil	M24-JI0005547
8	A3_TP05_0	Jun 26, 2024		Soil	M24-JI0005548
9	BH02_0	Jun 27, 2024		Soil	M24-JI0005549
10	BH05_0.2	Jun 27, 2024		Soil	M24-JI0005550
11	A2_TP02_0	Jun 26, 2024		Soil	M24-JI0005551
12	A3_TP03_0	Jun 26, 2024		Soil	M24-JI0005552
13	BH04_0	Jun 27, 2024		Soil	M24-JI0005553
14	A2_TP02_0.5	Jun 26, 2024		Soil	M24-JI0005554

Sample ID	Per- and Polyfluoroalkyl Substances (PFASs)	Eurofins Suite B4A	Eurofins Suite B7A	Total Recoverable Hydrocarbons	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	Moisture Set	Volatile Organics	BTEX and Naphthalene	NEPM 2013 Metals : Metals M13	Eurofins Suite B15	Metals M8	HOLD
1	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X

Company Name: Agon Environmental Pty Ltd - NT
Address: 3/224 Glen Osmond Road
 Fullarton
 SA 5063
Project Name: Soil Investigation
Project ID: JC:1580

Order No.: JC 1113757
Report #: 08 8338 1009
Phone:
Fax:

Received: Jul 2, 2024 3:00 PM
Due: Jul 9, 2024
Priority: 5 Day
Contact Name: Varun Bhagwat

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail		Per- and Polyfluoroalkyl Substances (PFASs)		Eurofins Suite B4A		Eurofins Suite B7A		Total Recoverable Hydrocarbons		NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding		Moisture Set		Volatile Organics		BTEX and Naphthalene		NEPM 2013 Metals : Metals M13		Eurofins Suite B15		Metals M8		HOLD	
15	A2_TP02_1.5	Jun 26, 2024	Soil	M24-JI0005555	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	A2_TP03_0.5	Jun 26, 2024	Soil	M24-JI0005556	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	A2_TP04_0	Jun 26, 2024	Soil	M24-JI0005557	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	A2_TP06_0	Jun 26, 2024	Soil	M24-JI0005558	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	A2_TP08_0	Jun 26, 2024	Soil	M24-JI0005559	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	A2_TP03_1	Jun 26, 2024	Soil	M24-JI0005561	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	A3_TP07_0	Jun 26, 2024	Soil	M24-JI0005562	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	QC01	Jun 26, 2024	Soil	M24-JI0005563	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	QC02	Jun 26, 2024	Soil	M24-JI0005564	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	RB01	Jun 26, 2024	Water	M24-JI0005565	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	RB02	Jun 27, 2024	Water	M24-JI0005566	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	TB01	Jun 27, 2024	Water	M24-JI0005567	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	BH05_0.3	Jun 27, 2024	Soil	M24-JI0005568	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	A2_TP01_0.2	Jun 26, 2024	Soil	M24-JI0005569	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	A2_TP01_0.7	Jun 26, 2024	Soil	M24-JI0005570	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	A2_TP01_1	Jun 26, 2024	Soil	M24-JI0005571	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	A2_TP02_1.7	Jun 26, 2024	Soil	M24-JI0005572	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



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

Project Name: Soil Investigation
Project ID: JC:1580

Order No.: JC 1113757
Report #: 08 8338 1009
Phone:
Fax:

Received: Jul 2, 2024 3:00 PM
Due: Jul 9, 2024
Priority: 5 Day
Contact Name: Varun Bhagwat

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					
32	A3_TP02_0	Jun 26, 2024	Soil	M24-JI0005573	
33	A3_TP04_0	Jun 26, 2024	Soil	M24-JI0005574	
34	A3_TP06_0	Jun 26, 2024	Soil	M24-JI0005575	
35	A3_TP08_0	Jun 26, 2024	Soil	M24-JI0005576	
36	QC03	Jun 27, 2024	Soil	M24-JI0005577	
Test Counts					
Per- and Polyfluoroalkyl Substances (PFASs)					X
Eurofins Suite B4A					X
Eurofins Suite B7A					X
Total Recoverable Hydrocarbons					X
NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding					X
Moisture Set					X
Volatile Organics					X
BTEX and Naphthalene					X
NEPM 2013 Metals : Metals M13					X
Eurofins Suite B15					X
Metals M8					X
HOLD					X
					10
					2
					8
					9
					1
					3
					23
					1
					18
					13

Internal Quality Control Review and Glossary
General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	Colour: Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (<i>bis-tributyltin oxide</i>) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPaA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Heavy Metals						
Arsenic	mg/L	< 0.001		0.001	Pass	
Cadmium	mg/L	< 0.0002		0.0002	Pass	
Chromium	mg/L	< 0.001		0.001	Pass	
Copper	mg/L	< 0.001		0.001	Pass	
Lead	mg/L	< 0.001		0.001	Pass	
Mercury	mg/L	< 0.0001		0.0001	Pass	
Nickel	mg/L	< 0.001		0.001	Pass	
Zinc	mg/L	< 0.005		0.005	Pass	
Method Blank						
Total Recoverable Hydrocarbons						
TRH C6-C9	mg/L	< 0.02		0.02	Pass	
TRH C10-C14	mg/L	< 0.05		0.05	Pass	
TRH C15-C28	mg/L	< 0.1		0.1	Pass	
TRH C29-C36	mg/L	< 0.1		0.1	Pass	
TRH C6-C10	mg/L	< 0.02		0.02	Pass	
TRH >C10-C16	mg/L	< 0.05		0.05	Pass	
TRH >C16-C34	mg/L	< 0.1		0.1	Pass	
TRH >C34-C40	mg/L	< 0.1		0.1	Pass	
Method Blank						
BTEX						
Benzene	mg/L	< 0.001		0.001	Pass	
Toluene	mg/L	< 0.001		0.001	Pass	
Ethylbenzene	mg/L	< 0.001		0.001	Pass	
m&p-Xylenes	mg/L	< 0.002		0.002	Pass	
o-Xylene	mg/L	< 0.001		0.001	Pass	
Xylenes - Total*	mg/L	< 0.003		0.003	Pass	
Method Blank						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	mg/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	105		80-120	Pass	
Cadmium	%	107		80-120	Pass	
Chromium	%	107		80-120	Pass	
Copper	%	105		80-120	Pass	
Lead	%	105		80-120	Pass	
Mercury	%	105		80-120	Pass	
Nickel	%	109		80-120	Pass	
Zinc	%	106		80-120	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons						
TRH C6-C9	%	104		70-130	Pass	
TRH C10-C14	%	118		70-130	Pass	
TRH C6-C10	%	108		70-130	Pass	
TRH >C10-C16	%	117		70-130	Pass	
LCS - % Recovery						
BTEX						
Benzene	%	80		70-130	Pass	
Toluene	%	80		70-130	Pass	
Ethylbenzene	%	84		70-130	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
m&p-Xylenes				%	83			70-130	Pass		
Xylenes - Total*				%	85			70-130	Pass		
LCS - % Recovery											
Total Recoverable Hydrocarbons - 2013 NEPM Fractions											
Naphthalene				%	113			70-130	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code	
Spike - % Recovery											
Heavy Metals											
					Result 1						
Arsenic	M24-JI0003369	NCP	%	99				75-125	Pass		
Cadmium	M24-JI0003369	NCP	%	93				75-125	Pass		
Chromium	M24-JI0003369	NCP	%	96				75-125	Pass		
Copper	M24-JI0003369	NCP	%	91				75-125	Pass		
Lead	M24-JI0003369	NCP	%	92				75-125	Pass		
Mercury	M24-JI0003369	NCP	%	90				75-125	Pass		
Nickel	M24-JI0003369	NCP	%	92				75-125	Pass		
Zinc	M24-JI0003369	NCP	%	92				75-125	Pass		
Spike - % Recovery											
Total Recoverable Hydrocarbons											
TRH C10-C14				M24-Jn0074438	NCP	%	120		70-130	Pass	
TRH >C10-C16				M24-Jn0074438	NCP	%	118		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code	
Duplicate											
Heavy Metals											
					Result 1	Result 2	RPD				
Arsenic	M24-JI0003369	NCP	mg/L	0.003	0.003	6.2	30%	Pass			
Cadmium	M24-JI0003369	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass			
Chromium	M24-JI0003369	NCP	mg/L	0.002	0.002	1.5	30%	Pass			
Copper	M24-JI0003369	NCP	mg/L	0.004	0.004	1.1	30%	Pass			
Lead	M24-JI0003369	NCP	mg/L	0.001	0.001	3.1	30%	Pass			
Mercury	M24-JI0003369	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass			
Nickel	M24-JI0003369	NCP	mg/L	0.009	0.009	2.4	30%	Pass			
Zinc	M24-JI0003369	NCP	mg/L	0.012	0.012	<1	30%	Pass			
Duplicate											
Total Recoverable Hydrocarbons											
TRH C6-C9				M24-JI0000561	NCP	mg/L	2.5	2.5	1.6	30%	Pass
TRH C10-C14				M24-JI0003003	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH C15-C28				M24-JI0003003	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH C29-C36				M24-JI0003003	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH C6-C10				M24-JI0000561	NCP	mg/L	2.5	2.5	1.6	30%	Pass
TRH >C10-C16				M24-JI0003003	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34				M24-JI0003003	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH >C34-C40				M24-JI0003003	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate											
BTEX											
Benzene				M24-JI0000561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene				M24-JI0000561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene				M24-JI0000561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes				M24-JI0000561	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
o-Xylene				M24-JI0000561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total*				M24-JI0000561	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate											
Total Recoverable Hydrocarbons - 2013 NEPM Fractions											
Naphthalene				M24-JI0000561	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised by:

Savini Suduweli	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Emily Rosenberg	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Volatile



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Company		Agon Environmental Pty Ltd - NT				Project No		JC1580		Project Manager		Varun Bhagwat			Sampler(s)		VB		
Address		1/41 Jessop Cres Berrimah NT 0828				Project Name		Soil Investigation		EDD Format ESdat, EDUS etc		Esdat			Facility Code		VB on 10/7/24		
Contact Name		Varun Bhagwat				Analyses		B15: OCP/OPP/PCB <th colspan="2">TRH (C6-C10)/BTEXN <th colspan="3">200mL Amber Glass</th> <th colspan="2">40mL VOA vial</th> <th colspan="2">finance@agonenviro.com.au</th> </th>		TRH (C6-C10)/BTEXN <th colspan="3">200mL Amber Glass</th> <th colspan="2">40mL VOA vial</th> <th colspan="2">finance@agonenviro.com.au</th>		200mL Amber Glass			40mL VOA vial		finance@agonenviro.com.au		
Phone No		0422 636 277				Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.		M13: NEM 2013 Metals <th colspan="2">PFA5 Full Suite <th colspan="3">60mL Plastic</th> <th colspan="2">500mL PFAS Bottle</th> <th colspan="2">varun.bhagwat@agonenviro.com.au; agonenvironments@esdat.com.au</th> </th>		PFA5 Full Suite <th colspan="3">60mL Plastic</th> <th colspan="2">500mL PFAS Bottle</th> <th colspan="2">varun.bhagwat@agonenviro.com.au; agonenvironments@esdat.com.au</th>		60mL Plastic			500mL PFAS Bottle		varun.bhagwat@agonenviro.com.au; agonenvironments@esdat.com.au		
Special Directions		B4A: TRH/BTEXN/PAH/Phenols				Matrix Solid (S) Water (W)		X X <th colspan="2">M8: Metals <th colspan="3">125mL Plastic</th> <th colspan="2">Jar (Glass or HDPE)</th> <th colspan="2">Required Turnaround Time (TAT) Default will be 5 days if not boxed.</th> </th>		M8: Metals <th colspan="3">125mL Plastic</th> <th colspan="2">Jar (Glass or HDPE)</th> <th colspan="2">Required Turnaround Time (TAT) Default will be 5 days if not boxed.</th>		125mL Plastic			Jar (Glass or HDPE)		Required Turnaround Time (TAT) Default will be 5 days if not boxed.		
Purchase Order						Sampled Date/Time dd/mm/yyyy hh:mm		X X <th colspan="2">B4A: TRH/BTEXN/PAH/Phenols <th colspan="3">500mL Plastic</th> <th colspan="2"></th> <th colspan="2"></th> </th>		B4A: TRH/BTEXN/PAH/Phenols <th colspan="3">500mL Plastic</th> <th colspan="2"></th> <th colspan="2"></th>		500mL Plastic							
Quote ID No						Client Sample ID		10/07/24 <th colspan="2">M13: NEM 2013 Metals <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th>		M13: NEM 2013 Metals <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th>		1							
No		1		A1_BH01_0.3		10/07/24 <th colspan="2">Soil <th colspan="2">X X <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th></th>		Soil <th colspan="2">X X <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th>		X X <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th>		1							
2		A1_BH01_0.4		10/07/24 <th colspan="2">Soil <th colspan="2">X X <th colspan="2"> <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th></th></th>		Soil <th colspan="2">X X <th colspan="2"> <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th></th>		X X <th colspan="2"> <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th>		<th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th>		1							
3		A1_BH02_0.3		10/07/24 <th colspan="2">Soil <th colspan="2">X X <th colspan="2"> <th colspan="3">2</th> <th colspan="2"></th> <th colspan="2"></th> </th></th></th>		Soil <th colspan="2">X X <th colspan="2"> <th colspan="3">2</th> <th colspan="2"></th> <th colspan="2"></th> </th></th>		X X <th colspan="2"> <th colspan="3">2</th> <th colspan="2"></th> <th colspan="2"></th> </th>		<th colspan="3">2</th> <th colspan="2"></th> <th colspan="2"></th>		2							
4		A1_BH03_0.3		10/07/24 <th colspan="2">Soil <th colspan="2">X X <th colspan="2"> <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th></th></th>		Soil <th colspan="2">X X <th colspan="2"> <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th></th>		X X <th colspan="2"> <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th>		<th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th>		1							
RB03				10/07/24 <th colspan="2">Water <th colspan="2"> <th colspan="2">X <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th></th></th>		Water <th colspan="2"> <th colspan="2">X <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th></th>		<th colspan="2">X <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th> </th>		X <th colspan="3">1</th> <th colspan="2"></th> <th colspan="2"></th>		1							
TB02				10/07/24 <th colspan="2">Water <th colspan="2"> <th colspan="2">X <th colspan="3">2</th> <th colspan="2"></th> <th colspan="2"></th> </th></th></th>		Water <th colspan="2"> <th colspan="2">X <th colspan="3">2</th> <th colspan="2"></th> <th colspan="2"></th> </th></th>		<th colspan="2">X <th colspan="3">2</th> <th colspan="2"></th> <th colspan="2"></th> </th>		X <th colspan="3">2</th> <th colspan="2"></th> <th colspan="2"></th>		2							
Add Rows						Total Counts		4		1		1			1		5		
Method of Shipment		Courier (#)		Hand Delivered		Name		Signature		Date			Time				
Laboratory Use Only		Received By		NK		YD BNE MEL PER ADL NTL DR		YD BNE MEL PER ADL NTL DR		Date		10/07/24			3:00 PM		Temperature		
Received By						YD BNE MEL PER ADL NTL DR				Date						Report No		1116437	

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Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgmt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgmt Standard Terms and Conditions is available on request.

Eurofins Environment Testing Australia Pty Ltd

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Sample Receipt Advice

Company name: Agon Environmental Pty Ltd - NT
Contact name: Varun Bhagwat
Project name: Soil Investigation
Project ID: JC1580
Turnaround time: 5 Day
Date/Time received: Jul 10, 2024 1:30 PM
Eurofins reference: 1116437

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Savini Suduweli on phone : +61 3 8564 5051 or by email: SaviniSuduweli@eurofins.com

Results will be delivered electronically via email to Varun Bhagwat - Varun.Bhagwat@agonenviro.com.au.

Note: A copy of these results will also be delivered to the general Agon Environmental Pty Ltd - NT email address.

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



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Varun Bhagwat**

Report **1116437-S**
Project name **Soil Investigation**
Project ID **JC1580**
Received Date **Jul 10, 2024**

Client Sample ID			A1_BH01_0.3	A1_BH01_0.4	A1_BH02_0.3	A1_BH03_0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0025409	M24-JI0025410	M24-JI0025411	M24-JI0025412
Date Sampled			Jul 10, 2024	Jul 10, 2024	Jul 10, 2024	Jul 10, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	250	120	310	< 50
TRH C29-C36	50	mg/kg	440	130	710	< 50
TRH C10-C36 (Total)	50	mg/kg	690	250	1020	< 50
TRH C6-C10*	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16*	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{*N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34*	100	mg/kg	520	200	750	< 100
TRH >C34-C40	100	mg/kg	750	160	1300	< 100
TRH >C10-C40 (total)*	100	mg/kg	1270	360	2050	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	110	94	105
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			A1_BH01_0.3	A1_BH01_0.4	A1_BH02_0.3	A1_BH03_0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0025409	M24-JI0025410	M24-JI0025411	M24-JI0025412
Date Sampled			Jul 10, 2024	Jul 10, 2024	Jul 10, 2024	Jul 10, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	72	76	79
p-Terphenyl-d14 (surr.)	1	%	73	85	80	80
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	94	90	70	103
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	8.2	-	-	-
Beryllium	2	mg/kg	< 2	-	-	-
Boron	10	mg/kg	< 10	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Cobalt	5	mg/kg	< 5	-	-	-
Copper	5	mg/kg	13	-	-	-
Lead	5	mg/kg	28	-	-	-
Manganese	5	mg/kg	300	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	13	-	-	-
Selenium	2	mg/kg	< 2	-	-	-
Zinc	5	mg/kg	26	-	-	-

Client Sample ID			A1_BH01_0.3	A1_BH01_0.4	A1_BH02_0.3	A1_BH03_0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0025409	M24-JI0025410	M24-JI0025411	M24-JI0025412
Date Sampled			Jul 10, 2024	Jul 10, 2024	Jul 10, 2024	Jul 10, 2024
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	8.2	8.8	3.1	4.6
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	67	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	55	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-

Client Sample ID			A1_BH01_0.3	A1_BH01_0.4	A1_BH02_0.3	A1_BH03_0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0025409	M24-JI0025410	M24-JI0025411	M24-JI0025412
Date Sampled			Jul 10, 2024	Jul 10, 2024	Jul 10, 2024	Jul 10, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	71	-
Polychlorinated Biphenyls						
Comments					G01	
Aroclor-1016	0.1	mg/kg	-	-	< 0.2	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.2	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.2	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.2	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.2	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.2	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.2	-
Total PCB*	0.1	mg/kg	-	-	< 0.2	-
Dibutylchloroendate (surr.)	1	%	-	-	67	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	55	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	-	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	-	< 5	-
13C4-PFBA (surr.)	1	%	-	-	112	-
13C5-PFPeA (surr.)	1	%	-	-	110	-
13C5-PFHxA (surr.)	1	%	-	-	97	-
13C4-PFHpA (surr.)	1	%	-	-	96	-
13C8-PFOA (surr.)	1	%	-	-	101	-
13C5-PFNA (surr.)	1	%	-	-	90	-
13C6-PFDA (surr.)	1	%	-	-	81	-
13C2-PFUnDA (surr.)	1	%	-	-	79	-
13C2-PFDoDA (surr.)	1	%	-	-	81	-
13C2-PFTeDA (surr.)	1	%	-	-	95	-

Client Sample ID			A1_BH01_0.3	A1_BH01_0.4	A1_BH02_0.3	A1_BH03_0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M24-JI0025409	M24-JI0025410	M24-JI0025411	M24-JI0025412
Date Sampled			Jul 10, 2024	Jul 10, 2024	Jul 10, 2024	Jul 10, 2024
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	-	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	-	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	-	< 10	-
13C8-FOSA (surr.)	1	%	-	-	94	-
D3-N-MeFOSA (surr.)	1	%	-	-	97	-
D5-N-EtFOSA (surr.)	1	%	-	-	97	-
D7-N-MeFOSE (surr.)	1	%	-	-	86	-
D9-N-EtFOSE (surr.)	1	%	-	-	87	-
D5-N-EtFOSAA (surr.)	1	%	-	-	56	-
D3-N-MeFOSAA (surr.)	1	%	-	-	48	-
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	-	< 5	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	-	< 5	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	-	< 5	-
13C3-PFBS (surr.)	1	%	-	-	103	-
18O2-PFHxS (surr.)	1	%	-	-	87	-
13C8-PFOS (surr.)	1	%	-	-	100	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	-	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	-	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	-	37	-
13C2-6:2 FTSA (surr.)	1	%	-	-	53	-
13C2-8:2 FTSA (surr.)	1	%	-	-	60	-
13C2-10:2 FTSA (surr.)	1	%	-	-	39	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	-

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B4A			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jul 11, 2024	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jul 11, 2024	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jul 11, 2024	14 Days
BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH	Melbourne	Jul 11, 2024	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jul 11, 2024	14 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jul 11, 2024	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jul 11, 2024	14 Days
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection	Melbourne	Jul 11, 2024	28 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Jul 11, 2024	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Jul 10, 2024	14 Days
Eurofins Suite B15			
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Jul 11, 2024	14 Days
Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)	Melbourne	Jul 11, 2024	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	Jul 11, 2024	28 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Jul 11, 2024	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Jul 11, 2024	28 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Jul 11, 2024	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Jul 11, 2024	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Jul 10, 2024	

Company Name: Agon Environmental Pty Ltd - NT
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Project Name: Soil Investigation
Project ID: JC:1580

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 Site# 25466

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Received: Jul 10, 2024 1:30 PM
Due: Jul 17, 2024
Priority: 5 Day
Contact Name: Varun Bhagwat

Eurofins Analytical Services Manager : Savini Suduweli

		Per- and Polyfluoroalkyl Substances (PFASs)		Eurofins Suite B4A		Moisture Set		BTEX and Naphthalene		NEPM 2013 Metals : Metals M13		Eurofins Suite B15		Metals M8		TRH C6-C10*	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	A1_BH01_0.3	Jul 10, 2024		Soil	M24-J10025409	X		X		X		X		X		X	
2	A1_BH01_0.4	Jul 10, 2024		Soil	M24-J10025410					X							
3	A1_BH02_0.3	Jul 10, 2024		Soil	M24-J10025411							X					
4	A1_BH03_0.3	Jul 10, 2024		Soil	M24-J10025412									X			
5	RB03	Jul 10, 2024		Water	M24-J10025413										X		
6	TB02	Jul 10, 2024		Water	M24-J10025414											X	
Test Counts																	

Internal Quality Control Review and Glossary
General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	Colour: Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPaA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Total Recoverable Hydrocarbons						
TRH C6-C9	mg/kg	< 20		20	Pass	
TRH C6-C10*	mg/kg	< 20		20	Pass	
Method Blank						
BTEX						
Benzene	mg/kg	< 0.1		0.1	Pass	
Toluene	mg/kg	< 0.1		0.1	Pass	
Ethylbenzene	mg/kg	< 0.1		0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2		0.2	Pass	
o-Xylene	mg/kg	< 0.1		0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3		0.3	Pass	
Method Blank						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	mg/kg	< 0.5		0.5	Pass	
Acenaphthylene	mg/kg	< 0.5		0.5	Pass	
Anthracene	mg/kg	< 0.5		0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5		0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5		0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5		0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Chrysene	mg/kg	< 0.5		0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5		0.5	Pass	
Fluoranthene	mg/kg	< 0.5		0.5	Pass	
Fluorene	mg/kg	< 0.5		0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5		0.5	Pass	
Naphthalene	mg/kg	< 0.5		0.5	Pass	
Phenanthrene	mg/kg	< 0.5		0.5	Pass	
Pyrene	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Phenols (Halogenated)						
2-Chlorophenol	mg/kg	< 0.5		0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1		1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1		1	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1		1	Pass	
Pentachlorophenol	mg/kg	< 1		1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10		10	Pass	
Method Blank						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20		20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5		5	Pass	
2-Nitrophenol	mg/kg	< 1		1.0	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5		0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5		5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2		0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4		0.4	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Beryllium	mg/kg	< 2			2	Pass	
Boron	mg/kg	< 10			10	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10*	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5	5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5	5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5	5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5	5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5	5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5	5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5	5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5	5	Pass	
Method Blank					
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5	5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5	5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5	5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5	5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5	5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10	10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10	10	Pass	
Method Blank					
Perfluoroalkyl sulfonic acids (PFSA's)					
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5	5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5	5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5	5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5	5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5	5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5	5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5	5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5	5	Pass	
Method Blank					
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5	5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10	10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5	5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5	5	Pass	
Method Blank					
Total Recoverable Hydrocarbons					
TRH C10-C14	mg/kg	< 20	20	Pass	
TRH C15-C28	mg/kg	< 50	50	Pass	
TRH C29-C36	mg/kg	< 50	50	Pass	
TRH >C10-C16*	mg/kg	< 50	50	Pass	
TRH >C16-C34*	mg/kg	< 100	100	Pass	
TRH >C34-C40	mg/kg	< 100	100	Pass	
LCS - % Recovery					
Total Recoverable Hydrocarbons					
TRH C6-C9	%	100	70-130	Pass	
TRH C10-C14	%	92	70-130	Pass	
TRH C6-C10*	%	97	70-130	Pass	
TRH >C10-C16*	%	115	70-130	Pass	
LCS - % Recovery					
BTEX					
Benzene	%	86	70-130	Pass	
Toluene	%	95	70-130	Pass	
Ethylbenzene	%	75	70-130	Pass	
m&p-Xylenes	%	103	70-130	Pass	
Xylenes - Total*	%	103	70-130	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	%	94		70-130	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	94		70-130	Pass	
Acenaphthylene	%	104		70-130	Pass	
Anthracene	%	79		70-130	Pass	
Benz(a)anthracene	%	100		70-130	Pass	
Benzo(a)pyrene	%	103		70-130	Pass	
Benzo(b&j)fluoranthene	%	107		70-130	Pass	
Benzo(g,h,i)perylene	%	120		70-130	Pass	
Benzo(k)fluoranthene	%	105		70-130	Pass	
Chrysene	%	107		70-130	Pass	
Dibenz(a,h)anthracene	%	76		70-130	Pass	
Fluoranthene	%	76		70-130	Pass	
Fluorene	%	101		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	111		70-130	Pass	
Naphthalene	%	103		70-130	Pass	
Phenanthrene	%	128		70-130	Pass	
Pyrene	%	81		70-130	Pass	
LCS - % Recovery						
Phenols (Halogenated)						
2-Chlorophenol	%	92		25-140	Pass	
2,4-Dichlorophenol	%	112		25-140	Pass	
2,4,5-Trichlorophenol	%	87		25-140	Pass	
2,4,6-Trichlorophenol	%	69		25-140	Pass	
2,6-Dichlorophenol	%	89		25-140	Pass	
4-Chloro-3-methylphenol	%	77		25-140	Pass	
Pentachlorophenol	%	46		25-140	Pass	
Tetrachlorophenols - Total	%	92		25-140	Pass	
LCS - % Recovery						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	%	41		25-140	Pass	
2-Methyl-4,6-dinitrophenol	%	34		25-140	Pass	
2-Nitrophenol	%	114		25-140	Pass	
2,4-Dimethylphenol	%	41		25-140	Pass	
2,4-Dinitrophenol	%	39		25-140	Pass	
2-Methylphenol (o-Cresol)	%	78		25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	87		25-140	Pass	
4-Nitrophenol	%	72		25-140	Pass	
Dinoseb	%	60		25-140	Pass	
Phenol	%	96		25-140	Pass	
LCS - % Recovery						
Chromium (hexavalent)	%	100		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	86		80-120	Pass	
Beryllium	%	80		80-120	Pass	
Boron	%	86		80-120	Pass	
Cadmium	%	105		80-120	Pass	
Cobalt	%	86		80-120	Pass	
Copper	%	84		80-120	Pass	
Lead	%	82		80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Manganese	%	88			80-120	Pass	
Mercury	%	102			80-120	Pass	
Nickel	%	85			80-120	Pass	
Selenium	%	85			80-120	Pass	
Zinc	%	82			80-120	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	83			70-130	Pass	
4.4'-DDD	%	115			70-130	Pass	
4.4'-DDE	%	77			70-130	Pass	
4.4'-DDT	%	78			70-130	Pass	
a-HCH	%	86			70-130	Pass	
Aldrin	%	79			70-130	Pass	
b-HCH	%	87			70-130	Pass	
d-HCH	%	86			70-130	Pass	
Dieldrin	%	74			70-130	Pass	
Endosulfan I	%	73			70-130	Pass	
Endosulfan II	%	93			70-130	Pass	
Endosulfan sulphate	%	78			70-130	Pass	
Endrin	%	106			70-130	Pass	
Endrin aldehyde	%	83			70-130	Pass	
Endrin ketone	%	79			70-130	Pass	
g-HCH (Lindane)	%	80			70-130	Pass	
Heptachlor	%	120			70-130	Pass	
Heptachlor epoxide	%	108			70-130	Pass	
Hexachlorobenzene	%	83			70-130	Pass	
Methoxychlor	%	126			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	74			70-130	Pass	
Dimethoate	%	73			70-130	Pass	
Ethion	%	102			70-130	Pass	
Fenitrothion	%	81			70-130	Pass	
Methyl parathion	%	71			70-130	Pass	
Mevinphos	%	77			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	110			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	88			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	96			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	98			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	104			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	100			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	107			50-150	Pass	
Perfluorotetradecanoic acid (PFTTeDA)	%	109			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	98			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	107			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	91			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	113			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	111			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	92			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	100			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)								
Perfluorobutanesulfonic acid (PFBS)	%	84			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	89			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	104			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	90			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	94			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	90			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	89			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	91			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	77			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	99			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	93			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	94			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	M24-JI0028935	NCP	%	101		70-130	Pass	
TRH C10-C14	M24-JI0028756	NCP	%	91		70-130	Pass	
TRH C6-C10*	M24-JI0028935	NCP	%	104		70-130	Pass	
TRH >C10-C16*	M24-JI0028756	NCP	%	83		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	M24-JI0028935	NCP	%	87		70-130	Pass	
Toluene	M24-JI0028935	NCP	%	88		70-130	Pass	
Ethylbenzene	M24-JI0028935	NCP	%	95		70-130	Pass	
m&p-Xylenes	M24-JI0028935	NCP	%	95		70-130	Pass	
o-Xylene	M24-JI0028935	NCP	%	97		70-130	Pass	
Xylenes - Total*	M24-JI0028935	NCP	%	96		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	M24-JI0028935	NCP	%	86		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	M24-JI0031207	NCP	%	77		70-130	Pass	
Acenaphthylene	M24-JI0031207	NCP	%	85		70-130	Pass	
Anthracene	M24-JI0031207	NCP	%	75		70-130	Pass	
Benz(a)anthracene	M24-JI0031207	NCP	%	85		70-130	Pass	
Benzo(a)pyrene	M24-JI0031207	NCP	%	95		70-130	Pass	
Benzo(b&j)fluoranthene	M24-JI0031207	NCP	%	97		70-130	Pass	
Benzo(g,h,i)perylene	M24-JI0031207	NCP	%	88		70-130	Pass	
Benzo(k)fluoranthene	M24-JI0031207	NCP	%	93		70-130	Pass	
Chrysene	M24-JI0031207	NCP	%	120		70-130	Pass	
Dibenz(a,h)anthracene	M24-JI0031207	NCP	%	77		70-130	Pass	
Fluoranthene	M24-JI0031207	NCP	%	92		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	M24-JI0031207	NCP	%	91		70-130	Pass	
Indeno(1.2.3-cd)pyrene	M24-JI0031207	NCP	%	80		70-130	Pass	
Naphthalene	M24-JI0031207	NCP	%	85		70-130	Pass	
Phenanthrene	M24-JI0031207	NCP	%	76		70-130	Pass	
Pyrene	M24-JI0031207	NCP	%	113		70-130	Pass	
Spike - % Recovery								
Phenols (Halogenated)				Result 1				
2-Chlorophenol	M24-JI0025836	NCP	%	77		30-130	Pass	
2.4-Dichlorophenol	M24-JI0025836	NCP	%	43		30-130	Pass	
2.4.5-Trichlorophenol	M24-JI0025836	NCP	%	52		30-130	Pass	
2.4.6-Trichlorophenol	M24-JI0025836	NCP	%	41		30-130	Pass	
2.6-Dichlorophenol	M24-JI0025836	NCP	%	33		30-130	Pass	
4-Chloro-3-methylphenol	M24-JI0025836	NCP	%	57		30-130	Pass	
Tetrachlorophenols - Total	M24-JI0025836	NCP	%	36		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Nitrophenol	M24-JI0025836	NCP	%	93		30-130	Pass	
2.4-Dimethylphenol	M24-JI0025836	NCP	%	35		30-130	Pass	
2-Methylphenol (o-Cresol)	M24-JI0025836	NCP	%	73		30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M24-JI0025836	NCP	%	73		30-130	Pass	
Phenol	M24-JI0025836	NCP	%	81		30-130	Pass	
Spike - % Recovery								
				Result 1				
Chromium (hexavalent)	M24-JI0026356	NCP	%	117		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	M24-JI0031065	NCP	%	89		75-125	Pass	
Beryllium	M24-JI0031065	NCP	%	83		75-125	Pass	
Boron	M24-JI0031065	NCP	%	87		75-125	Pass	
Cadmium	M24-JI0028129	NCP	%	100		75-125	Pass	
Cobalt	M24-JI0028129	NCP	%	84		75-125	Pass	
Copper	M24-JI0028129	NCP	%	83		75-125	Pass	
Lead	M24-JI0026316	NCP	%	102		75-125	Pass	
Manganese	M24-JI0028129	NCP	%	81		75-125	Pass	
Mercury	M24-JI0028129	NCP	%	106		75-125	Pass	
Nickel	M24-JI0028129	NCP	%	82		75-125	Pass	
Selenium	M24-JI0031065	NCP	%	85		75-125	Pass	
Zinc	M24-JI0028129	NCP	%	76		75-125	Pass	
Spike - % Recovery								
Phenols (Halogenated)				Result 1				
Pentachlorophenol	M24-JI0016338	NCP	%	42		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Cyclohexyl-4.6-dinitrophenol	M24-JI0016338	NCP	%	50		30-130	Pass	
2-Methyl-4.6-dinitrophenol	M24-JI0016338	NCP	%	60		30-130	Pass	
2.4-Dinitrophenol	M24-JI0016338	NCP	%	52		30-130	Pass	
4-Nitrophenol	M24-JI0016338	NCP	%	73		30-130	Pass	
Dinoseb	M24-JI0016338	NCP	%	64		30-130	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	M24-JI0025411	CP	%	89		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M24-JI0025411	CP	%	88		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M24-JI0025411	CP	%	93		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-JI0025411	CP	%	93		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanoic acid (PFOA)	M24-JI0025411	CP	%	94	50-150	Pass	
Perfluorononanoic acid (PFNA)	M24-JI0025411	CP	%	99	50-150	Pass	
Perfluorodecanoic acid (PFDA)	M24-JI0025411	CP	%	97	50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M24-JI0025411	CP	%	103	50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M24-JI0025411	CP	%	107	50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M24-JI0025411	CP	%	122	50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M24-JI0025411	CP	%	105	50-150	Pass	
Spike - % Recovery							
Perfluoroalkyl sulfonamido substances				Result 1			
Perfluorooctane sulfonamide (FOSA)	M24-JI0025411	CP	%	98	50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-JI0025411	CP	%	100	50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-JI0025411	CP	%	91	50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-JI0025411	CP	%	91	50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-JI0025411	CP	%	105	50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-JI0025411	CP	%	89	50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-JI0025411	CP	%	93	50-150	Pass	
Spike - % Recovery							
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1			
Perfluorobutanesulfonic acid (PFBS)	M24-JI0025411	CP	%	86	50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M24-JI0025411	CP	%	73	50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M24-JI0025411	CP	%	107	50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M24-JI0025411	CP	%	92	50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M24-JI0025411	CP	%	94	50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M24-JI0025411	CP	%	92	50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M24-JI0025411	CP	%	96	50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M24-JI0025411	CP	%	101	50-150	Pass	
Spike - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-JI0025411	CP	%	82	50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-JI0025411	CP	%	106	50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-JI0025411	CP	%	83	50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-JI0025411	CP	%	90	50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M24-JI0029024	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M24-JI0028757	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M24-JI0028757	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M24-JI0028757	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10*	M24-JI0029024	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16*	M24-JI0028757	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34*	M24-JI0028757	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M24-JI0028757	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-JI0029024	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M24-JI0029024	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M24-JI0029024	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M24-JI0029024	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M24-JI0029024	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M24-JI0029024	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M24-JI0029024	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2,4-Dichlorophenol	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2,4,5-Trichlorophenol	M24-JI0026314	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2,4,6-Trichlorophenol	M24-JI0026314	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2,6-Dichlorophenol	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M24-JI0026314	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M24-JI0026314	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M24-JI0026314	NCP	mg/kg	< 10	< 10	<1	30%	Pass	

Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M24-JI0026314	NCP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M24-JI0026314	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M24-JI0026314	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M24-JI0026314	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M24-JI0026314	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M24-JI0026314	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M24-JI0026314	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M24-JI0026314	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M24-JI0026314	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Chromium (hexavalent)				Result 1	Result 2	RPD		
Chromium (hexavalent)	M24-JI0023686	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M24-JI0026301	NCP	mg/kg	4.4	5.6	24	30%	Pass
Beryllium	M24-JI0026301	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Boron	M24-JI0026301	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Cadmium	M24-JI0026301	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Cobalt	M24-JI0026301	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	M24-JI0026301	NCP	mg/kg	8.1	9.3	14	30%	Pass
Lead	M24-JI0026301	NCP	mg/kg	8.3	9.1	9.6	30%	Pass
Manganese	M24-JI0026301	NCP	mg/kg	83	110	26	30%	Pass
Mercury	M24-JI0026301	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	M24-JI0026301	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Selenium	M24-JI0026301	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Zinc	M24-JI0026301	NCP	mg/kg	19	20	6.4	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	M24-JI0026265	NCP	%	20	18	13	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M24-JI0023246	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M24-JI0023246	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M24-JI0023246	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate									
Organophosphorus Pesticides					Result 1	Result 2	RPD		
Azinphos-methyl	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M24-JI0023246	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M24-JI0023246	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M24-JI0023246	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M24-JI0023246	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls					Result 1	Result 2	RPD		
Aroclor-1016	M24-JI0023246	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M24-JI0023246	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M24-JI0023246	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M24-JI0023246	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M24-JI0023246	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M24-JI0023246	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M24-JI0023246	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M24-JI0023246	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)					Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluoroundecanoic acid (PFUnDA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M24-JI0029714	NCP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M24-JI0029714	NCP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M24-JI0029714	NCP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M24-JI0029714	NCP	ug/kg	< 5	< 5	<1	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Catherine Wilson	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Inorganic
Carroll Lee	Senior Analyst-Organic
Carroll Lee	Senior Analyst-PFAS
Edward Lee	Senior Analyst-Organic
Emily Rosenberg	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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 Fullarton
 SA 5063



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Varun Bhagwat**

Report **1116437-W**
 Project name **Soil Investigation**
 Project ID **JC1580**
 Received Date **Jul 10, 2024**

Client Sample ID			RB03	TB02
Sample Matrix			Water	Water
Eurofins Sample No.			M24-JI0025413	M24-JI0025414
Date Sampled			Jul 10, 2024	Jul 10, 2024
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	-
Zinc	0.005	mg/L	< 0.005	-
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	98
Volatile Organics				
Naphthalene ^{N02}	0.01	mg/L	-	< 0.01
Total Recoverable Hydrocarbons				
TRH C6-C10*	0.02	mg/L	-	< 0.02

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Jul 11, 2024	28 Days
Total Recoverable Hydrocarbons - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jul 11, 2024	7 Days
Eurofins Suite B4A BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH	Melbourne	Jul 11, 2024	14 Days

DRAFT

Internal Quality Control Review and Glossary
General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	Colour: Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPaA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Heavy Metals						
Arsenic	mg/L	< 0.001		0.001	Pass	
Cadmium	mg/L	< 0.0002		0.0002	Pass	
Chromium	mg/L	< 0.001		0.001	Pass	
Copper	mg/L	< 0.001		0.001	Pass	
Lead	mg/L	< 0.001		0.001	Pass	
Mercury	mg/L	< 0.0001		0.0001	Pass	
Nickel	mg/L	< 0.001		0.001	Pass	
Zinc	mg/L	< 0.005		0.005	Pass	
Method Blank						
BTEX						
Benzene	mg/L	< 0.001		0.001	Pass	
Toluene	mg/L	< 0.001		0.001	Pass	
Ethylbenzene	mg/L	< 0.001		0.001	Pass	
m&p-Xylenes	mg/L	< 0.002		0.002	Pass	
o-Xylene	mg/L	< 0.001		0.001	Pass	
Xylenes - Total*	mg/L	< 0.003		0.003	Pass	
Method Blank						
Volatile Organics						
Naphthalene	mg/L	< 0.01		0.01	Pass	
Method Blank						
Total Recoverable Hydrocarbons						
TRH C6-C10*	mg/L	< 0.02		0.02	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	93		80-120	Pass	
Cadmium	%	94		80-120	Pass	
Chromium	%	93		80-120	Pass	
Copper	%	93		80-120	Pass	
Lead	%	93		80-120	Pass	
Mercury	%	91		80-120	Pass	
Nickel	%	94		80-120	Pass	
Zinc	%	94		80-120	Pass	
LCS - % Recovery						
BTEX						
Benzene	%	86		70-130	Pass	
Toluene	%	87		70-130	Pass	
Ethylbenzene	%	76		70-130	Pass	
m&p-Xylenes	%	75		70-130	Pass	
Xylenes - Total*	%	76		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
Naphthalene	%	92		70-130	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons						
TRH C6-C10*	%	80		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M24-JI0028843	NCP	%	99			75-125	Pass	
Cadmium	M24-JI0028843	NCP	%	102			75-125	Pass	
Chromium	M24-JI0028843	NCP	%	99			75-125	Pass	
Copper	M24-JI0028843	NCP	%	94			75-125	Pass	
Lead	M24-JI0028843	NCP	%	97			75-125	Pass	
Mercury	M24-JI0028843	NCP	%	104			75-125	Pass	
Nickel	M24-JI0028843	NCP	%	99			75-125	Pass	
Zinc	M24-JI0028843	NCP	%	86			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M24-JI0028843	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M24-JI0028843	NCP	mg/L	0.0003	0.0003	<1	30%	Pass	
Chromium	M24-JI0028843	NCP	mg/L	0.003	0.003	1.3	30%	Pass	
Copper	M24-JI0028843	NCP	mg/L	0.047	0.048	2.4	30%	Pass	
Lead	M24-JI0028843	NCP	mg/L	0.002	0.002	2.8	30%	Pass	
Mercury	M24-JI0028843	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M24-JI0028843	NCP	mg/L	0.003	0.003	5.3	30%	Pass	
Zinc	M24-JI0028843	NCP	mg/L	0.12	0.13	4.3	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M24-JI0025135	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M24-JI0025135	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M24-JI0025135	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M24-JI0025135	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M24-JI0025135	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M24-JI0025135	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Naphthalene	M24-JI0025135	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C10*	M24-JI0025135	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.

Authorised by:

Catherine Wilson	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Volatile



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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DRAFT



QUALITY CONTROL REPORT

Work Order : **ES2421493**

Page : 1 of 10

Client : **AGON ENVIRONMENTAL PTY LTD**

Laboratory : Environmental Division Sydney

Contact : Mr. Varun Bhagwat

Contact : Josh Alexander

Address : UNIT 1/41 JESSOP CRES
BERRIMAH 0828

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : ----

Telephone : +61-2-8784 8555

Project : JC1580 - Soil Investigation

Date Samples Received : 02-Jul-2024

Order number : ----

Date Analysis Commenced : 04-Jul-2024

C-O-C number : ----

Issue Date : 10-Jul-2024

Sampler : Varun Bhagwat

Site : Berrimah Freight Terminal

Quote number : EN/222

No. of samples received : 3

No. of samples analysed : 2



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwardy Fadjjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Evie Sidarta	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: SOIL

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report			Acceptable RPD (%)
						Original Result	Duplicate Result	RPD (%)	
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5902974)									
ES2421423-009	Anonymous								
		EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	10	11	11.2	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	14	16	14.5	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	16	19	18.5	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	7	8	0.0	No Limit
ES2421498-005	Anonymous								
		EG005T: Cadmium	7440-43-9	1 (2)*	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2 (4)*	mg/kg	9	9	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	9	5	54.3	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	21	19	10.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	45	67	39.1	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	18	16	10.8	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5902988)									
ES2421423-018	Anonymous								
		EA055: Moisture Content	---	0.1 (1.0)*	%	16.4	15.7	4.3	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5909082)									
ES2420895-004	Anonymous								
		EA055: Moisture Content	---	0.1	%	13.9	13.7	1.0	0% - 20%
ES2422311-019	Anonymous								
		EA055: Moisture Content	---	0.1 (1.0)*	%	5.9	5.8	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5902973)									
ES2421423-009	Anonymous								
		EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit



Sub-Matrix: SOIL		Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5902973) - continued									
ES2421498-005	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP075(SIM)A: Phenolic Compounds (QC Lot: 5898766)									
ES2421493-001	QC01A								
		EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2,6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5898766)									
ES2421493-001	QC01A								
		EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+h)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5898767)									
ES2421493-001	QC01A								
		EP071: C15 - C28 Fraction	----	100	mg/kg	130	150	16.4	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	250	270	9.3	No Limit



Sub-Matrix: SOIL		Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method/Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5898767) - continued									
ES2421493-001	QC01A	EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5904639)									
ES2421493-001	QC01A	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2421762-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5898767)									
ES2421493-001	QC01A	EP071: >C16 - C34 Fraction	----	100	mg/kg	260	310	16.5	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	350	380	7.8	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5904639)									
ES2421493-001	QC01A	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2421762-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 5904639)									
ES2421493-001	QC01A	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
		EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5904345)									
ES2421423-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0004	0.0003	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0014	0.0013	10.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5904345)									
ES2421423-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit



Laboratory sample ID		Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
Sub-Matrix: SOIL										
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5904345) - continued										
ES2421423-001		Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
			EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
ES2421493-002		QC02A	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
			EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
			EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
			EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
			EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5904345)										
ES2421423-001		Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
			EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
			EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
			EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2421493-002		QC02A	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
			EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
			EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
			EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Method/Compound	CAS Number	LOR	Unit	Method Blank (MB) Report		Laboratory Control Spike (LCS) Report			
				Result	Concentration	Spike Recovery (%)	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5902974)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	94.4		88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	102		70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	120		68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	103		89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	98.6		82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	100		80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	97.0		66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5902973)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	95.4		70.0	125
EP075(SIM)A: Phenolic Compounds (QCLot: 5898766)									
EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	6 mg/kg	99.9		71.0	125
EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	6 mg/kg	101		72.0	124
EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	6 mg/kg	107		71.0	123
EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	12 mg/kg	111		67.0	127
EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	6 mg/kg	93.9		54.0	114
EP075(SIM): 2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	6 mg/kg	84.0		68.0	126
EP075(SIM): 2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	6 mg/kg	91.7		66.0	120
EP075(SIM): 2,6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	6 mg/kg	96.0		70.0	120
EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	6 mg/kg	93.6		70.0	116
EP075(SIM): 2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	6 mg/kg	84.8		54.0	114
EP075(SIM): 2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	6 mg/kg	89.0		60.0	114
EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	12 mg/kg	55.3		10.0	80.0
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5898766)									
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	101		77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	98.0		72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	98.9		73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	98.5		72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	103		75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	104		77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	104		73.0	127



Sub-Matrix: SOIL		Method: Compound		Method Blank (MB) Report		Laboratory Control Spike (LCS) Report		
Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5898766) - continued								
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	104	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	97.3	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	101	75.0	127
EP075(SIM): Benzo(b+h)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	92.7	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	101	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	100	70.0	126
EP075(SIM): Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	96.0	61.0	121
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	94.8	62.0	118
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	94.0	63.0	121
EP080/074: Total Petroleum Hydrocarbons (QCLot: 5898767)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	103	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	103	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	99.8	71.0	129
EP080/074: Total Petroleum Hydrocarbons (QCLot: 5904639)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	82.3	72.2	131
EP080/074: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5898767)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	104	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	101	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	102	63.0	131
EP080/074: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5904639)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	80.9	72.4	133
EP080: BTEXN (QCLot: 5904639)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	90.7	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	100	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	83.0	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	93.8	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	87.3	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	89.5	78.8	122
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5904345)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.1	72.0	128
EP231X: Perfluorohexane sulfonic acid (PFHXS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.6	67.0	130
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	84.8	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5904345)								



Sub-Matrix: SOIL			Method Blank (MB) Report		Laboratory Control Spike (LCS) Report			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	LCS	Acceptable Limits (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5904345) - continued								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	74.0	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	79.2	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.0	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.3	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	84.9	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5904345)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	87.0	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	80.9	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	87.7	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	86.3	69.2	143

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report		
				Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5902974)						
ES2421423-009	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	94.4	70.0
		EG005T: Cadmium	7440-43-9	50 mg/kg	99.4	70.0
		EG005T: Chromium	7440-47-3	50 mg/kg	103	68.0
		EG005T: Copper	7440-50-8	250 mg/kg	96.5	70.0
		EG005T: Lead	7439-92-1	250 mg/kg	99.1	70.0
		EG005T: Nickel	7440-02-0	50 mg/kg	98.8	70.0
		EG005T: Zinc	7440-66-6	250 mg/kg	101	66.0
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5902973)						
ES2421423-009	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	71.3	70.0
EP075(SIM)A: Phenolic Compounds (QCLot: 5898766)						
ES2421493-001	QC01A	EP075(SIM): Phenol	108-95-2	10 mg/kg	95.4	70.0
		EP075(SIM): 2-Chlorophenol	95-57-8	10 mg/kg	98.1	70.0
		EP075(SIM): 2-Nitrophenol	88-75-5	10 mg/kg	86.0	60.0
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	10 mg/kg	87.5	70.0
		EP075(SIM): Pentachlorophenol	87-86-5	10 mg/kg	81.8	20.0
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5898766)						
ES2421493-001	QC01A	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	93.4	70.0



Laboratory sample ID		Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report		
					Spike Concentration	SpikeRecovery(%)	Acceptable Limits (%)
						MS	Low High
Sub-Matrix: SOIL							
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5898766) - continued							
ES2421493-001	QC01A		EP075(SIM): Pyrene	129-00-0	10 mg/kg	99.1	70.0 130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5898767)							
ES2421493-001	QC01A		EP071: C10 - C14 Fraction	----	480 mg/kg	107	73.0 137
			EP071: C15 - C28 Fraction	----	3100 mg/kg	112	53.0 131
			EP071: C29 - C36 Fraction	----	2060 mg/kg	108	52.0 132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5904639)							
ES2421493-001	QC01A		EP080: C6 - C9 Fraction	----	32.5 mg/kg	78.5	60.4 142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5898767)							
ES2421493-001	QC01A		EP071: >C10 - C16 Fraction	----	860 mg/kg	95.4	73.0 137
			EP071: >C16 - C34 Fraction	----	4320 mg/kg	111	53.0 131
			EP071: >C34 - C40 Fraction	----	890 mg/kg	114	52.0 132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5904639)							
ES2421493-001	QC01A		EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	76.5	61.1 142
EP080: BTEXN (QCLot: 5904639)							
ES2421493-001	QC01A		EP080: Benzene	71-43-2	2.5 mg/kg	77.8	62.1 122
			EP080: Toluene	108-88-3	2.5 mg/kg	90.4	66.6 119
			EP080: Ethylbenzene	100-41-4	2.5 mg/kg	75.2	67.4 123
			EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	79.9	66.4 121
			EP080: ortho-Xylene	95-47-6	2.5 mg/kg	79.2	70.7 121
			EP080: Naphthalene	91-20-3	2.5 mg/kg	78.3	61.1 115
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5904345)							
ES2421423-001	Anonymous		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	89.2	72.0 128
			EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	81.0	67.0 130
			EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	92.8	68.0 136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5904345)							
ES2421423-001	Anonymous		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	89.2	71.0 135
			EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	95.0	69.0 132
			EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	101	70.0 132
			EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	97.9	71.0 131
			EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	91.8	69.0 133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5904345)							
ES2421423-001	Anonymous		EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	91.8	62.0 145
			EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	109	64.0 140
			EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	96.9	65.0 137
			EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	75.3	69.2 143



TEMPLATE



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **ES2421493** Page : 1 of 6

Client : **AGON ENVIRONMENTAL PTY LTD** Laboratory : Environmental Division Sydney
Contact : Mr. Varun Bhagwat Telephone : +61-2-8784 8555
Project : JC1580 - Soil Investigation Date Samples Received : 02-Jul-2024
Site : Berrimah Freight Terminal Issue Date : 10-Jul-2024
Sampler : Varun Bhagwat No. of samples received : 3
Order number : No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- For all regular sample matrices, where applicable to the methodology, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

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



Outliers : Frequency of Quality Control Samples

Matrix: SOIL

Quality Control Sample Type Analytical Methods	Method	Count		Rate (%)		Quality Control Specification
		QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP) Moisture Content	EA055	3	31	9.68	10.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: SOIL

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

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation		Analysis	
		Date extracted	Due for extraction	Date analysed	Due for analysis
EA055: Moisture Content (Dried @ 105-110°C)					
Soil Glass Jar - Unpreserved (EA055) QC01A	26-Jun-2024	----	----	04-Jul-2024	10-Jul-2024
Soil Glass Jar - Unpreserved (EA055) QC02A	26-Jun-2024	----	----	08-Jul-2024	10-Jul-2024
EG005(ED093)T: Total Metals by ICP-AES					
Soil Glass Jar - Unpreserved (EG005T) QC01A	26-Jun-2024	04-Jul-2024	23-Dec-2024	05-Jul-2024	23-Dec-2024
EG035T: Total Recoverable Mercury by FIMS					
Soil Glass Jar - Unpreserved (EG035T) QC01A	26-Jun-2024	04-Jul-2024	24-Jul-2024	08-Jul-2024	24-Jul-2024
EP075(SIM)A: Phenolic Compounds					
Soil Glass Jar - Unpreserved (EP075(SIM)) QC01A	26-Jun-2024	04-Jul-2024	10-Jul-2024	06-Jul-2024	13-Aug-2024
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons					
Soil Glass Jar - Unpreserved (EP075(SIM)) QC01A	26-Jun-2024	04-Jul-2024	10-Jul-2024	06-Jul-2024	13-Aug-2024
EP080/071: Total Petroleum Hydrocarbons					
Soil Glass Jar - Unpreserved (EP071) QC01A	26-Jun-2024	04-Jul-2024	10-Jul-2024	08-Jul-2024	13-Aug-2024
Soil Glass Jar - Unpreserved (EP080) QC01A	26-Jun-2024	05-Jul-2024	10-Jul-2024	06-Jul-2024	10-Jul-2024



Page : 3 of 6
 Work Order : ES2421493
 Client : AGON ENVIRONMENTAL PTY LTD
 Project : JC1580 - Soil Investigation

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

Method	Sample Date	Extraction / Preparation		Analysis	
		Date extracted	Due for extraction	Date analysed	Due for analysis
EP080/071: Total Recoverable Hydrocarbons - NIEPM 2013 Fractions					
Soil Glass Jar - Unpreserved (EP071)					
QC01A	26-Jun-2024	04-Jul-2024	10-Jul-2024	08-Jul-2024	13-Aug-2024
Soil Glass Jar - Unpreserved (EP080)					
QC01A	26-Jun-2024	05-Jul-2024	10-Jul-2024	06-Jul-2024	10-Jul-2024
EP080: BTEXN					
Soil Glass Jar - Unpreserved (EP080)					
QC01A	26-Jun-2024	05-Jul-2024	10-Jul-2024	06-Jul-2024	10-Jul-2024
EP231A: Perfluoroalkyl Sulfonic Acids					
HDPE Soil Jar (EP231X)					
QC01A, QC02A	26-Jun-2024	09-Jul-2024	23-Dec-2024	10-Jul-2024	18-Aug-2024
EP231B: Perfluoroalkyl Carboxylic Acids					
HDPE Soil Jar (EP231X)					
QC01A, QC02A	26-Jun-2024	09-Jul-2024	23-Dec-2024	10-Jul-2024	18-Aug-2024
EP231D: (n:2) Fluorotelomer Sulfonic Acids					
HDPE Soil Jar (EP231X)					
QC01A, QC02A	26-Jun-2024	09-Jul-2024	23-Dec-2024	10-Jul-2024	18-Aug-2024
EP231P: PFAS Sums					
HDPE Soil Jar (EP231X)					
QC01A, QC02A	26-Jun-2024	09-Jul-2024	23-Dec-2024	10-Jul-2024	18-Aug-2024



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

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

Quality Control Sample Type	Method	Count			Rate (%)		Evaluation	Quality Control Specification
		QC	Regular	Actual	Expected			
Laboratory Duplicates (DUP)								
Moisture Content	EA055	3	31	9.68	10.00	✖	NEPM 2013 B3 & ALS QC Standard	
PAH/Phenols (SIM)	EP075(SIM)	1	7	14.29	10.00	✔	NEPM 2013 B3 & ALS QC Standard	
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	19	10.53	10.00	✔	NEPM 2013 B3 & ALS QC Standard	
Total Mercury by FIMS	EG035T	2	11	18.18	10.00	✔	NEPM 2013 B3 & ALS QC Standard	
Total Metals by ICP-AES	EG005T	2	6	33.33	10.00	✔	NEPM 2013 B3 & ALS QC Standard	
TRH - Semivolatile Fraction	EP071	1	7	14.29	10.00	✔	NEPM 2013 B3 & ALS QC Standard	
TRH Volatiles/BTEX	EP080	2	19	10.53	10.00	✔	NEPM 2013 B3 & ALS QC Standard	
Laboratory Control Samples (LCS)								
PAH/Phenols (SIM)	EP075(SIM)	1	7	14.29	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	5.26	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Total Mercury by FIMS	EG035T	1	11	9.09	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Total Metals by ICP-AES	EG005T	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
TRH - Semivolatile Fraction	EP071	1	7	14.29	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
TRH Volatiles/BTEX	EP080	1	19	5.26	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Method Blanks (MB)								
PAH/Phenols (SIM)	EP075(SIM)	1	7	14.29	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	5.26	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Total Mercury by FIMS	EG035T	1	11	9.09	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Total Metals by ICP-AES	EG005T	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
TRH - Semivolatile Fraction	EP071	1	7	14.29	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
TRH Volatiles/BTEX	EP080	1	19	5.26	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Matrix Spikes (MS)								
PAH/Phenols (SIM)	EP075(SIM)	1	7	14.29	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	19	5.26	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Total Mercury by FIMS	EG035T	1	11	9.09	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
Total Metals by ICP-AES	EG005T	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
TRH - Semivolatile Fraction	EP071	1	7	14.29	5.00	✔	NEPM 2013 B3 & ALS QC Standard	
TRH Volatiles/BTEX	EP080	1	19	5.26	5.00	✔	NEPM 2013 B3 & ALS QC Standard	



Brief Method Summaries

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

<i>Analytical Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatle Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.4, table B-15 requirements.
<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



Page : 6 of 6
Work Order : ES2421493
Client : AGON ENVIRONMENTAL PTY LTD
Project : JC1580 - Soil Investigation

Preparation Methods	Method	Matrix	Method Descriptions
QuEChERS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.

FINAL REPORT



CERTIFICATE OF ANALYSIS

Work Order : ES2421493
Client : AGON ENVIRONMENTAL PTY LTD
Contact : Mr. Varun Bhagwat
Address : UNIT 1/41 JESSOP CRES
BERRIMAH 0828
Telephone : +61-2-8784 8555
Project : JC1580 - Soil Investigation
Order number :
C-O-C number :
Sampler : Varun Bhagwat
Site : Berrimah Freight Terminal
Quote number : EN/222
No. of samples received : 3
No. of samples analysed : 2

Page : 1 of 7
Laboratory : Environmental Division Sydney
Contact : Josh Alexander
Address : 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone : +61-2-8784 8555
Date Samples Received : 02-Jul-2024 08:30
Date Analysis Commenced : 04-Jul-2024
Issue Date : 10-Jul-2024 13:50



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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position
Ankit Joshi	Senior Chemist - Inorganics
Edwandy Fadjar	Organic Coordinator
Evie Sidarta	Inorganic Chemist
Franco Lentini	LCMS Coordinator

Accreditation Category

Sydney Inorganics, Smithfield, NSW
Sydney Organics, Smithfield, NSW
Sydney Inorganics, Smithfield, NSW
Sydney Organics, Smithfield, NSW



Page : 2 of 7
Work Order : ES2421493
Client : AGON ENVIRONMENTAL PTY LTD
Project : JC1580 - Soil Investigation

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

∅ = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1,2,3-cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG005: Poor precision was obtained for Chromium on sample ES2421498-#005. Confirmed by redigestion and reanalysis.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTfDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration or as per USEPA 1633 limits where LISTED. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS and also conform to QSM 5.4 (US DoD) requirements.



Analytical Results

Compound	CAS Number	Sample ID		QC01A	QC02A	Result
		LOR	Unit			
Sub-Matrix: SOIL (Matrix: SOIL)		Sampling date / time	Unit	26-Jun-2024 00:00	26-Jun-2024 00:00	Result
EA055: Moisture Content (Dried @ 105-110°C)						
Moisture Content	0.1	%		5.0		
Moisture Content	1.0	%		4.4		
EG005(ED093)T: Total Metals by ICP-AES						
Arsenic	7440-38-2	5	mg/kg	8		
Cadmium	7440-43-9	1	mg/kg	<1		
Chromium	7440-47-3	2	mg/kg	27		
Copper	7440-50-8	5	mg/kg	10		
Lead	7439-92-1	5	mg/kg	16		
Nickel	7440-02-0	2	mg/kg	8		
Zinc	7440-66-6	5	mg/kg	24		
EG035T: Total Recoverable Mercury by FIMS						
Mercury	7439-97-6	0.1	mg/kg	<0.1		
EP075(SIM)A: Phenolic Compounds						
Phenol	108-95-2	0.5	mg/kg	<0.5		
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5		
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5		
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1		
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5		
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5		
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5		
2,6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5		
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5		
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5		
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5		
Pentachlorophenol	87-86-5	2	mg/kg	<2		
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
Naphthalene	91-20-3	0.5	mg/kg	<0.5		



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)	Sample ID		Sampling date / time	Unit	LOR	CAS Number	QC01A	QC02A	Result
	26-Jun-2024 00:00	26-Jun-2024 00:00							
Compound	ES2421493-001		ES2421493-002		Result		Result		
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5					
Acenaphthene	83-32-9	0.5	mg/kg	<0.5					
Fluorene	86-73-7	0.5	mg/kg	<0.5					
Phenanthrene	85-01-8	0.5	mg/kg	<0.5					
Anthracene	120-12-7	0.5	mg/kg	<0.5					
Fluoranthene	206-44-0	0.5	mg/kg	<0.5					
Pyrene	129-00-0	0.5	mg/kg	<0.5					
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5					
Chrysene	218-01-9	0.5	mg/kg	<0.5					
Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	<0.5					
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5					
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5					
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	<0.5					
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5					
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5					
^ Sum of polycyclic aromatic hydrocarbons			mg/kg	<0.5					
^ Benzo(a)pyrene TEQ (zero)			mg/kg	<0.5					
^ Benzo(a)pyrene TEQ (half LOR)			mg/kg	0.6					
^ Benzo(a)pyrene TEQ (LOR)			mg/kg	1.2					
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction		10	mg/kg	<10					
C10 - C14 Fraction		50	mg/kg	<50					
C15 - C28 Fraction		100	mg/kg	130					
C29 - C36 Fraction		100	mg/kg	250					
^ C10 - C36 Fraction (sum)		50	mg/kg	380					
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg	<10					



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)		Sample ID		QC01A	QC02A		
Compound	CAS Number	LOR	Unit	Result	Result		
Sampling date / time				26-Jun-2024 00:00	26-Jun-2024 00:00		
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued							
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10			
>C10 - C16 Fraction		50	mg/kg	<50			
>C16 - C34 Fraction		100	mg/kg	260			
>C34 - C40 Fraction		100	mg/kg	350			
^ >C10 - C40 Fraction (sum)		50	mg/kg	610			
^ >C10 - C16 Fraction minus Naphthalene (F2)		50	mg/kg	<50			
EP080: BTEXN							
Benzene	71-43-2	0.2	mg/kg	<0.2			
Toluene	108-88-3	0.5	mg/kg	<0.5			
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5			
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5			
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5			
^ Sum of BTEX		0.2	mg/kg	<0.2			
^ Total Xylenes		0.5	mg/kg	<0.5			
Naphthalene	91-20-3	1	mg/kg	<1			
EP231A: Perfluoroalkyl Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002		
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002		
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<0.0002		
EP231B: Perfluoroalkyl Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001		
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002		
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002		
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002		
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002		



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)		Sample ID		QC01A		QC02A	
Compound	CAS Number	LOR	Unit	26-Jun-2024 00:00	26-Jun-2024 00:00	26-Jun-2024 00:00	26-Jun-2024 00:00
				Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued							
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	*****	*****
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	*****	*****
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	*****	*****
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	*****	*****
EP231P: PFAS Sums							
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	*****	*****
Sum of PFAS (WA DER List)	****	0.0002	mg/kg	<0.0002	<0.0002	*****	*****
EP075(SIM)S: Phenolic Compound Surrogates							
Phenol-d6	13127-88-3	0.5	%	79.9	*****	*****	*****
2-Chlorophenol-D4	93951-73-6	0.5	%	76.7	*****	*****	*****
2,4,6-Tribromophenol	118-79-6	0.5	%	60.5	*****	*****	*****
EP075(SIM)T: PAH Surrogates							
2-Fluorobiphenyl	321-60-8	0.5	%	72.8	*****	*****	*****
Anthracene-d10	1719-06-8	0.5	%	83.8	*****	*****	*****
4-Terphenyl-d14	1718-51-0	0.5	%	80.5	*****	*****	*****
EP080S: TPH(V)/BTEX Surrogates							
1,2-Dichloroethane-D4	17060-07-0	0.2	%	84.7	*****	*****	*****
Toluene-D8	2037-26-5	0.2	%	79.8	*****	*****	*****
4-Bromofluorobenzene	460-00-4	0.2	%	83.5	*****	*****	*****
EP231S: PFAS Surrogate							
13C4-PFOS	*****	0.0002	%	104	*****	*****	96.6
13C8-PFOA	*****	0.0002	%	95.2	*****	*****	93.4



Surrogate Control Limits

Sub-Matrix: SOIL			
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2,4,6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

ASBESTOS IN SOIL IDENTIFICATION RESULTS

Date:	30 July 2024	Agon Job No:	JL5586-68
Client:	Agon Environmental	Reference/PO:	JC1580
Attention:	Varun Bhagwat	Client contact:	varun.bhagwat@agonenviro.com.au
Site Location:	Berrimah Freight Terminal	Received Date:	15 July 2024
Sampled By:	Varun Bhagwat	Sampling Date:	26 June 2024
Identification Date:	30 July 2024	Location of Analysis:	Darwin

The practicable limit of detection for standard polarised-light microscopy (PLM) and dispersion staining analysis of asbestos in soil, as defined by AS4964-2004 is in the range 0.1% to 0.01% (0.1g/kg) weight for weight (w/w). Trace Asbestos Detected means the results can be interpreted as containing detectable 'respirable' asbestos fibres as per AS 4964-2004 (LOR 5 fibres).

Section 9.1 (AS4964-2004) states for the test report, factual descriptions are required when asbestos materials are present, therefore all asbestos fines must be recorded. Identified asbestos fines must be described, but the description is not a reflection of the actual sample result. Under the terms of NATA accreditation and in accordance with asbestos analysis by AS4964-2004, reporting of concentrations below the detection limit for the method of 0.1g/kg (0.01% w/w) is not covered by NATA. Asbestos fines that fall below the AS4964-2004 method's limit of detection will be recorded as non-NATA.

Asbestos weights and percentages are not covered under the Scope of NATA Accreditation therefore 'NATA accreditation does not cover the performance of this service'. Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present). Percentages for Asbestos content in ACM and soil density are based on the NEPM 2013 default values. All numerical results under this method are approximate and should be used as a guide only. LOR for asbestos quantification for AF and FA (NEPM) is 0.001% (Non-NATA).

Terminology; NF-No Fines, AF-Asbestos Fines/FA-Fibrous Asbestos

QUALITATIVE RESULTS (NATA)			QUANTITATIVE RESULTS (NON-NATA)				
AS4964(2004) IDENTIFICATION OF ASBESTOS IN BULK SAMPLES AND INHOUSE LP-004 PROCEDURE ASBESTOS IDENTIFICATION MANUAL			NATIONAL ENVIRONMENT PROTECTION (ASSESSMENT OF SITE CONTAMINATION) MEASURE (2013)				
SAMPLE ID	SAMPLE LOCATION	DESCRIPTION	TOTAL DRY SAMPLE WEIGHT (g)	ANALYSIS RESULT	ASBESTOS AF/FA FINDINGS (<7mm >2mm)	ASBESTOS AF/FA FINDINGS (<2mm)	TOTAL % W/W
JL5586-68_1	A2_TP05_0	Soil with inclusion of rocks and organic fibre	732.03	No asbestos detected at the reporting limit of 0.1g/kg. Organic fibre detected. No trace (respirable) asbestos detected.	NF	NF	<0.001%



Darren Kenny

Approved Identifier/Signatory

Any and all services carried out by Agon for the Client are subject to the Terms and Conditions provided in Agon form QFB-008 and are governed by our Statement of Limitations provided in Agon form QFB-024 (both documents accessible at <https://agonenviro.com.au/documents/>).



Appendix D: Audit Criteria Tables

DRAFT

	Unit	EQL	ASC NERM (2013) Table 1A(1) HILs Rec C Soil	ASC NEPM (2013) Table 1A(9) Rec C Soil HSL for Vapour Intrusion, Sand >0m, <1m	CRC CARE Direct Contact HSL-C Recreational / Open Space
BTEX					
Benzene	mg/kg	0.1	NL	NL	120
Toluene	mg/kg	0.1	NL	NL	15,000
Ethylbenzene	mg/kg	0.1	NL	NL	5,300
Xylene (o & p)	mg/kg	0.2			
Xylene (m)	mg/kg	0.3			
Total BTEX	mg/kg	0.2	NL	NL	15,000
Total Petroleum Hydrocarbons					
C5-C9 Fraction	mg/kg	10			
C10-C14 Fraction	mg/kg	20			
C15-C28 Fraction	mg/kg	50			
C29-C36 Fraction	mg/kg	50			
C10-C36 Fraction (Sum)	mg/kg	50			
Total Recoverable Hydrocarbons					
C5-C10 Fraction	mg/kg	10			
C5-C10 Fraction minus BTEX (F1)	mg/kg	10	NL	NL	5,100
>C10-C16 Fraction	mg/kg	50			
>C10-C16 Fraction minus naphthalene (F2)	mg/kg	50	NL	NL	3,800
>C16-C34 Fraction	mg/kg	100			
>C34-C40 Fraction	mg/kg	100			
>C10-C40 Fraction (Sum)	mg/kg	50			
PAHs					
Acenaphthene	mg/kg	0.5			
Acenaphthylene	mg/kg	0.5			
Anthracene	mg/kg	0.5			
Benz(a)anthracene	mg/kg	0.5			
Benzo(a)pyrene	mg/kg	0.5			
Benzo(b)fluoranthene	mg/kg	0.5			
Benzo(k)fluoranthene	mg/kg	0.5			
Chrysene	mg/kg	0.5			
Dibenz(a,h)anthracene	mg/kg	0.5			
Fluoranthene	mg/kg	0.5			
Fluorene	mg/kg	0.5			
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5			
Naphthalene	mg/kg	0.5			
Phenanthrene	mg/kg	0.5			
Pyrene	mg/kg	0.5			
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.5	3		1,900
Sum of Polycyclic aromatic hydrocarbons (PAH)	mg/kg	0.5	300		7,400
Phenols					
2-Methylphenol	mg/kg	0.2			
2-Nitrophenol	mg/kg	0.5			
2,4-Dimethylphenol	mg/kg	0.5			
2,4-Dinitrophenol	mg/kg	5			
3,4-Dimethylphenol (m,p-cresol)	mg/kg	0.4			
4-Methylphenol (p-cresol)	mg/kg	0.5			
4-Nitrophenol	mg/kg	0.5			
4,4'-Dinitro-cyclohexylphenol	mg/kg	20			
4,4'-Dinitro-cyclohexylphenol	mg/kg	0.5	4,000		
Cresol Total	mg/kg	0.5	40,000		
Phenol	mg/kg	0.5			
Phenolics Total	mg/kg	0.5			
Phenols (non-halogenated)	mg/kg	20			
Halogenated Phenols					
2,4,5-Trichlorophenol	mg/kg	0.5			
2,4,6-Trichlorophenol	mg/kg	0.5			
2,4-Dichlorophenol	mg/kg	0.5			
2,6-Dichlorophenol	mg/kg	0.5			
2-Chlorophenol	mg/kg	0.5			
Pentachlorophenol	mg/kg	1			
Tetrachlorophenols	mg/kg	10	120		
Phenols (Halogenated)	mg/kg	1			

Comments
 NL - Non Limiting (i.e Derived soil HSL exceeds soil saturation concentration)

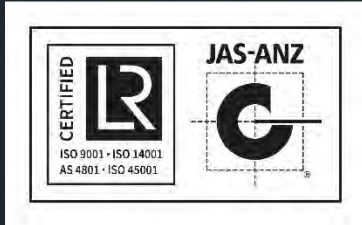
One Rail Diesel Spill - Soil Bores, Test Pits Validation Samples Results

1168829

Location	Area	Depth (m)	Field ID	Sample Date	Lab Report #	Inorganic % (dried @ 103°C)	6-G-10 mg/kg	6-G-10 - BTEX (F-1) mg/kg	TRH RH <10-C16 mg/kg	TRH T10-C16 - Naphth (Z) mg/kg	TRH RH <16-C34 mg/kg	TRH RH <34-C40 mg/kg	TRH C10 - C14 mg/kg	TRH C15 - C18 mg/kg	TRH C19 - C26 (sum of) mg/kg	Phenene mg/kg	Thybenzene mg/kg	toluene mg/kg	Styrene (m & p) mg/kg	Styrene (o) mg/kg	Total mg/kg	1,1-Dichloroethane mg/kg		
SOIL BORE SAMPLES																								
BH03		0	BH03-0.00	4/06/2020	724546	5.4	<20	<20	<50	<50	110	110	<20	<20	90	180	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH03		0.5	BH03-0.00	4/06/2020	724546	11	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH03		2	BH03-2.00	4/06/2020	724546	6.8	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH06		0.5	BH06-0.00	4/06/2020	724546	8	<20	<20	<50	<50	180	180	<20	<20	120	240	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH07		0.5	BH07-0.00	4/06/2020	724546	8.6	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH07		1.85	BH07-1.85	4/06/2020	724546	8.3	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH08		2.5	BH08A-2.50	4/06/2020	724546	7.1	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH08		3.5	BH08A-3.50	4/06/2020	724546	18	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH12		0.03	BH12-0.03	4/06/2020	724546	4.7	<20	<20	<50	<50	180	230	<20	<20	96	170	266	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
BH13		0.25	BH13-0.25	5/06/2020	724546	9	290	270	2000	24000	20000	10000	<200	1900	32000	47000	<1	2.7	1.1	8.9	6.4	15	45	
BH13		0.55	BH13-0.55	5/06/2020	724546	15	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH14		0.25	BH14-0.25	5/06/2020	724546	3.8	470	430	2000	20000	16000	10000	<200	1300	26000	45000	<1	6.1	4	20	12	32	45	
BH14		0.6	BH14-0.60	5/06/2020	724546	11	<20	<20	<50	<50	<100	<100	<20	<20	82	<20	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH14		0.9	BH14-0.90	5/06/2020	724546	7.9	<20	<20	<50	<50	140	150	<20	79	220	<50	299	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
BH14		3.1	BH14-3.10	5/06/2020	724546	1.7	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH15		0.25	BH15-0.25	5/06/2020	724546	8.1	480	440	2700	27000	23000	10000	<200	1800	36000	45000	<1	5.2	2.6	17	11	28	45	
BH15		0.3	BH15-0.30	5/06/2020	724546	7.8	<20	<20	<50	<50	730	730	<20	270	1000	<50	1270	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
BH15		0.8	BH15-0.80	5/06/2020	724546	6.9	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH15		3.05	BH15-3.05	5/06/2020	724546	15	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH16		0	BH16-0.00	5/06/2020	724546	7	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH16		0.3	BH16-0.30	5/06/2020	724546	9.3	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH17		0	BH17-0.00	5/06/2020	724546	6.5	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH17		0.45	BH17-0.45	5/06/2020	724546	9.1	45	100	1200	1200	990	<100	<20	740	1500	<50	2240	<0.1	<0.1	<0.1	1.1	0.7	1.8	
BH17		0.65	BH17-0.65	5/06/2020	724546	9	<20	<20	<50	<50	120	<100	<20	37	150	<50	215	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
BH17		3.4	BH17-3.4	5/06/2020	724546	12	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
BH17		3.4	BH17-3.4	5/06/2020	724546	13	<20	<20	<50	<50	<100	<100	<20	<20	<100	<50	109	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
NON DESTRUCTIVE TEST PIT SAMPLES																								
NDTP01		0.5	NDTP01-0.5	10/06/2020	732576	10	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
NDTP02		0.5	NDTP02-0.5	10/06/2020	732576	7.9	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
NDTP03		0.5	NDTP03-0.5	10/06/2020	732576	7.4	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
NDTP04		0.6	NDTP04-0.6	10/06/2020	732576	2.4	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
NDTP05		0.2	NDTP05-0.2	10/06/2020	732576	4.9	<20	<20	<50	<50	15000	15000	<200	11000	23000	<250	34000	<1	2.3	<1	11	7.4	18	<10
NDTP06		0.35	NDTP06-0.35	10/06/2020	732576	7.1	<20	<20	<50	<50	<100	<100	<20	<20	<50	64	64	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
NDTP07		1.1	NDTP07-1.1	16/07/2020	732705	11	<20	<20	<50	<50	30997.5	20000	<100	270	19000	33000	96	52096	<0.4	18	11	53	33	86
NDTP08		0.3	NDTP08-0.3	16/07/2020	732705	11	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	
NDTP09		0.3	NDTP09-0.3	16/07/2020	732705	6.0	270	250	14000	14000	10000	510	97	8400	16000	200	24000	<0.5	3	2	11	6.5	17	<2.5
NDTP10		1.5	NDTP10-1.5	16/07/2020	732705	3.2	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	

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