

APPENDIX F: QAQC REPORT

The sampling and analysis process (collection, transport and analysis) was guided by the sampling and analysis quality plan and conducted according to standard operating procedures (SOPs) in the field and in the laboratory as part of the quality assurance process, in order to minimise the effect of natural and inherent variability and extraneous factors on data quality.

To measure the effectiveness of the quality assurance process, quality control (QC) samples are part of the field and laboratory procedures to assess both the accuracy and the precision of the results produced.

- Measures of ACCURACY are indicative of how close the reported results are to the true result. For practical reasons, measures of accuracy are usually confined to the laboratory procedures.
- Measures of PRECISION provide information on the variability in the results. Precision can be assessed as:
 - “repeatability” or intra-laboratory variation – the degree of variation in a result when the same laboratory analyses a sample (or blind replicate) several times, and;
 - “reproducibility” or inter-laboratory variation – the degree of variation in a result when a different laboratory separately analyses a sample.

The quality control was based on guidelines presented in:

- NEPM [the National Environment Protection (Assessment of Site Contamination) Measure 1999]
- AS4482.1 Guide to the sampling and investigation of potentially contaminated soil, Part 1: Non-Volatile and Semi-volatile Substances.

The outcome of the Field and Laboratory quality control are presented in this Quality Assurance / Quality Control report.

F.1 FIELD QUALITY CONTROL (QAQC) SAMPLES

	Soil
Days of sampling	10
Primary samples	317
Inter-laboratory Field Duplicates (at least 1 in 20 samples)	18
Intra-laboratory Field Duplicates (at least 1 in 20 samples)	26
Field Blank (as required)	8
Trip Blanks (at least 1 per sampling event)	7
Trip Spike (where loss of organics in transport is considered a risk)	Not required for investigation.
Equipment Rinsate (at least 1/day/matrix/equipment)	7

Samples Analysed

Primary samples and intra-laboratory duplicates were sent to Eurofins for laboratory analysis.

Inter-laboratory duplicate samples were submitted to ALS as QAQC check of the primary laboratory.

Inter-Laboratory and Intra-Laboratory Duplicates

ITEM	QUESTION	YES	NO (Comment below)
1	Were an <u>Adequate Number</u> of inter-laboratory and intra-laboratory duplicates analysed for each chemical?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Were RPDs within Control Limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

RPDs between primary, inter-laboratory duplicate sample and intra-laboratory duplicate samples are provided in Appendix F.4. Where RPD exceedances have been reported they are considered to be minor and predominately attributed to:

- sample heterogeneity in regard to organo-chlorine pesticides distribution in the soil matrix
- sample heterogeneity in regard to metals distribution in fill materials
- natural variability in regard to metals in natural soil materials.

RPD exceedances are not considered to impact the outcome of the investigation.

Field Blanks

ITEM	QUESTION	YES	NO (Comment below)
1	Were Field Blanks collected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Were the Field Blanks free of contaminants? (If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments

Concentrations of zinc marginally above LOR (5 µg/L) were detected in two field blank samples (QC03-230918 and QC06_FB at 6 µg/L and 8 µg/L respectively). The zinc concentrations detected are potentially associated with zinc in rinsate water and/or sample bottles supplied by the analytical laboratory. Contamination during sampling and/or transport to the laboratory is considered unlikely based on non-detects for other analytes (metals and OCPs). Zinc in validation samples was below the remediation criteria for the site.

Trip Blanks

ITEM	QUESTION	YES	NO (Comment below)
1	Was a trip blank undertaken on each day of sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Were the Trip Blanks free of contaminants? (If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments

Trip Blanks submitted to the laboratory were requested for analysis of metals/OCPs however the samples were analysed for TRH/BTEXN. The Field Blanks submitted can also a surrogate for the Trip Blanks and did not report evidence of cross-contamination either during sampling or during transport to the laboratory.

Trip Spike

ITEM	QUESTION	YES	NO (Comment below)
1	Was a trip spike undertaken?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Was analyte recovery suitable (>50%)? (If no, comment whether the low recovery and apparent concentrations may present a risk of a false negative.)	<input type="checkbox"/>	<input type="checkbox"/>

Comments

Trip spike samples were not required for the investigation because contaminants of concern were not volatile.

Rinsate Blanks

ITEM	QUESTION	YES	NO (Comment below)
1	Were Equipment Rinsates collected and analysed every day?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Were the Equipment Rinsates free of contaminants? (If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments

Rinsate samples were collected on the days where re-usable sampling equipment was used.

Concentrations of the contaminants of concern were reported in the following samples.

Sample ID	OCPs	Chromium (III+VI)	Copper	Lead	Nickel	Zinc
QC08_230921		✓	✓	✓		✓
QC05_RB						✓
QC13_230921	✓	✓	✓		✓	✓

The result for QC_05 is similar to the detection of zinc in some of the field blanks analysed and potentially attributed to laboratory provided rinsate water and/or sample bottles.

Metals and/or OCPs in QC08_230921 (20/9/23) and QC13_230921 (21/9/23) were detected in rinsate samples collected on the 20/9/23 and 21/9/23 respectively. The rinsate samples were collected off a geotechnical pick used to break the ground surface where required. The rinsate sample was collected following cleaning of the geological pick with detergent (Liquinox) and then rinsing of the pick with potable water and drying the pick with clean paper towel (this decontamination procedure was undertaken between each use of the pick).

The detection of metals and OCPs in these samples is potentially attributed to materials which were not removed from the pick and/or dust materials which settled on the pick after decontamination and prior to the collection of the rinsate sample.

Notwithstanding these non-conformances the low detections of some metals and OCP in the rinsate blanks are not considered to have affected the validity of the results noting:

- OCPs were not detected in any soil sample analysed on the 21/9/23 and in the majority of samples on the 20/9/23. Where detected OCPs were found, the concentrations below the remediation criteria.

- Metals were below the remediation criteria with the exception of arsenic in two samples⁴⁰ treated fence. It should be noted that arsenic was not detected in the rinsate samples.
- Each sample was collected with a new set of nitrile gloves.
- Non-detects were reported in all other rinsate samples indicating that the decontamination procedures were generally effective.

It is noted that Rinsate blanks were not collected during all sampling events on the basis that reusable sampling equipment was not used on those sampling days.

Summary of Field Quality Control

In summary, the field QC results are considered acceptable for the purposes of this investigation.

Field QAQC was:	<input checked="" type="checkbox"/>	Satisfactory
	<input type="checkbox"/>	Partially Satisfactory
	<input type="checkbox"/>	Unsatisfactory

F.2 LABORATORY QUALITY ASSURANCE QUALITY CONTROL

Laboratories

ITEM	QUESTION	YES	NO (Comment below)
1	Was a NATA registered laboratory used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Did the laboratory perform the requested tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Were the laboratory methods adopted NATA endorsed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Were the appropriate test procedures followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Were the reporting limits satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Was the NATA Seal on the reports?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Were the reports signed by an authorised person?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments

Eurofins – Eurofins has been adopted as the primary laboratory for analysis of soil samples. Eurofins is a NATA accredited laboratory (NATA accreditation number 1261) for all the analytes requiring analysis.

ALS Environmental – ALS has been adopted as the secondary laboratory for analysis of soil samples. ALS is a NATA accredited laboratory (NATA accreditation number 825) for all the analytes requiring analysis.

Precision / Accuracy of the Laboratory Report	<input checked="" type="checkbox"/>	Satisfactory
	<input type="checkbox"/>	Partially Satisfactory
	<input type="checkbox"/>	Unsatisfactory

⁴⁰ Arsenic contamination associated with these samples is attributed to a copper chromium arsenic (CCA) treated fence.

Sample Handling

ITEM	QUESTION	YES	NO (Comment below)
1	Were the sample holding times met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Were the samples in proper custody between the field and reaching the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Were the samples properly and adequately preserved? <i>This includes keeping the samples chilled, where applicable.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Were the samples received by the laboratory in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments

Batch 1055969 reported a holding time breach of 1-day for OCPs and PAHs. Samples were delivered to the laboratory in chilled insulated containers and stored by the laboratory in refrigerated areas. The contaminant of concern (OCPs) have low volatility and the non-conformance is considered to be minor and not have affected the validity of the results.

Sample Handling was:	<input checked="" type="checkbox"/>	Satisfactory
	<input type="checkbox"/>	Partially Satisfactory
	<input type="checkbox"/>	Unsatisfactory

Laboratory Blanks.

Eurofins and ALS laboratory method blank results reported concentrations of contaminants below the laboratory reporting limits.

Laboratory Duplicates

Internal laboratory duplicates analysed by Eurofins and ALS were within acceptable limits (<30% RPD) with the exception of the following batches which reported non-conformances outside the acceptance limits:

- Eurofins: 1025750, 1028239, 1029417, 1036638 and 1039102
- ALS: EB2334519

Non-conformances are likely to be attributed to sample heterogeneity and were considered by the laboratories prior to the issuing of the laboratory reports.

Laboratory Control Samples

Matrix spike analyses were performed by Eurofins and ALS were within the adopted 70% – 130% acceptability criteria with the exception of the following batches which reported non-conformances outside the acceptance limits:

- ALS: EB2328260, EB2328861, EB2340686

Non-conformances are likely to be attributed to sample heterogeneity and were considered by the laboratories prior to the issuing of the laboratory reports.

Matrix Spikes

Matrix spike analyses were performed by Eurofins and ALS were within the adopted 70% – 130% acceptability criteria. Minor non-conformances were reported in the following batches:

- Eurofin: 1027451, 1036638
- ALS: EB2332532 and EB2328260. EB2330054 EB2332532

Non-conformances in matrix spike recoveries are likely to be attributed to sample heterogeneity and were considered by the laboratories prior to the issuing of the laboratory reports.

Surrogate Recoveries

Surrogate recoveries were all within the target recovery of 70-130% with the exception of the following batches which reported minor non-conformances which were considered by the laboratories prior to the issuing of the laboratory reports.

- ALS: EB2328260
- Eurofins: 1024818, 1027451, 1028239, 1029417, 1035652, **1036638**, 1039102, 1055969.

Summary of Internal Laboratory Quality Control

ITEM	QUESTION	YES	NO (Comment below)
1	Were the laboratory blanks/reagents blanks free of contamination?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Were the spike recoveries within control limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Were the RPDs of the laboratory duplicates within control limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Were the surrogate recoveries within control limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comment: refer to comments on the previous pages in regard to spike recoveries, laboratory RPDs and surrogates.

Laboratory internal QAQC was:	<input checked="" type="checkbox"/>	Satisfactory
	<input type="checkbox"/>	Partially Satisfactory
	<input type="checkbox"/>	Unsatisfactory

F.3 SUMMARY OF DATA QUALITY REVIEW

In summary, a number of minor non-conformances were identified in the laboratory QA/QC data. These non-conformances however are not considered to preclude the use of the analytical data for this investigation.

	BTEX							Total Petroleum Hydrocarbons	Total Recoverable Hydrocarbons		Metals							
	Benzene	Toluene	Ethylbenzene	Xylene Total	Naphthalene (VOC)	Xylene (o)	Xylene (m & p)	C6 - C9	F1 (C6 - C10)	F1 (C6 - C10) less BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.1	0.1	0.1	0.3	0.5	0.1	0.2	20	20	20	1	0.2	1	1	1	0.1	1	5

Lab Report																						
Field ID	Sample Type	Date	Matrix Type	Number																		
QC01_230912	Field_B	12 Sep 2023	Water	1025750	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	<5
QC02_230912	Rinsate	12 Sep 2023	Water	1025750	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	<5
QC03-230918	Field_B	18 Sep 2023	Water	1027451	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	6
QC03_FB	Field_B	07 Sep 2023	Water	1024818	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	<5
QC04-230918	Rinsate	18 Sep 2023	Water	1027451	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	<5
QC04_RB	Rinsate	07 Sep 2023	Water	1024818	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	<5
QC05-230918	Trip_B	18 Sep 2023	Soil	1027451	<0.1	<0.1	<0.1	<0.3	<0.5	<0.1	<0.2	<20	<20	<20	-	-	-	-	-	-	-	-
QC05_230912	Trip_B	12 Sep 2023	Soil	1025750	<0.1	<0.1	<0.1	<0.3	<0.5	<0.1	<0.2	<20	<20	<20	-	-	-	-	-	-	-	-
QC05_RB	Rinsate	16 Oct 2023	Water	1035652	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	8
QC06_FB	Field_B	16 Oct 2023	Water	1035652	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	8
QC07_TB	Trip_B	16 Oct 2023	Soil	1035652	<0.1	<0.1	<0.1	<0.3	<0.5	<0.1	<0.2	<20	<20	<20	-	-	-	-	-	-	-	-
QC08_230921	Rinsate	20 Sep 2023	Water	1028239	-	-	-	-	-	-	-	-	-	-	<1	<0.2	2	6	3	<0.1	4	83
QC09_230921	Field_B	20 Sep 2023	Water	1028239	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	<5
QC12_230921	Field_B	21 Sep 2023	Water	1029417	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	<5
QC13_230921	Rinsate	21 Sep 2023	Water	1029417	-	-	-	-	-	-	-	-	-	-	<1	<0.2	4	2	<1	<0.1	10	45
QC122	Rinsate	26 Oct 2023	Water	1039102	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	<5
QC123	Field_B	26 Oct 2023	Water	1039102	-	-	-	-	-	-	-	-	-	-	<1	<0.2	<1	<1	<1	<0.1	<1	<5
Trip Blank	Trip_B	26 Oct 2023	Soil	1039102	<0.1	<0.1	<0.1	<0.3	<0.5	<0.1	<0.2	<20	<20	<20	-	-	-	-	-	-	-	-
TRIP BLANK	Trip_B	18 Oct 2023	Soil	1036638	<0.1	<0.1	<0.1	<0.3	<0.5	<0.1	<0.2	<20	<20	<20	-	-	-	-	-	-	-	-

EQL	Organochlorine Pesticides																	
	4,4-DDE	α-BHC	Aldrin	Aldrin + Dieldrin	β-BHC	chlordan	δ-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endrin	Endrin aldehyde	Endrin ketone	γ-BHC (Lindane)	Heptachlor	Methoxychlor
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Lab Report																							
Field ID	Sample Type	Date	Matrix Type	Number																			
QC01_230912	Field_B	12 Sep 2023	Water	1025750	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC02_230912	Rinsate	12 Sep 2023	Water	1025750	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC03-230918	Field_B	18 Sep 2023	Water	1027451	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC03 FB	Field_B	07 Sep 2023	Water	1024818	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC04-230918	Rinsate	18 Sep 2023	Water	1027451	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC04 RB	Rinsate	07 Sep 2023	Water	1024818	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC05-230918	Trip_B	18 Sep 2023	Soil	1027451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QC05_230912	Trip_B	12 Sep 2023	Soil	1025750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QC05_RB	Rinsate	16 Oct 2023	Water	1035652	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC06_FB	Field_B	16 Oct 2023	Water	1035652	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC07_TB	Trip_B	16 Oct 2023	Soil	1035652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QC08_230921	Rinsate	20 Sep 2023	Water	1028239	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC09_230921	Field_B	20 Sep 2023	Water	1028239	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC12_230921	Field_B	21 Sep 2023	Water	1029417	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QC13_230921	Rinsate	21 Sep 2023	Water	1029417	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QC122	Rinsate	26 Oct 2023	Water	1039102	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
QC123	Field_B	26 Oct 2023	Water	1039102	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Trip Blank	Trip_B	26 Oct 2023	Soil	1039102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRIP BLANK	Trip_B	18 Oct 2023	Soil	1036638	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

EQL							
	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Endosulfan sulphate	Heptachlor epoxide	Hexachlorobenzene	Toxaphene	DDT+DDE+DDD
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	2	2	0.2	0.2	0.2	5	0.2

Lab Report											
Field ID	Sample Type	Date	Matrix Type	Number							
QC01_230912	Field_B	12 Sep 2023	Water	1025750	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC02_230912	Rinsate	12 Sep 2023	Water	1025750	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC03-230918	Field_B	18 Sep 2023	Water	1027451	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC03_FB	Field_B	07 Sep 2023	Water	1024818	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC04-230918	Rinsate	18 Sep 2023	Water	1027451	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC04_RB	Rinsate	07 Sep 2023	Water	1024818	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC05-230918	Trip_B	18 Sep 2023	Soil	1027451	-	-	-	-	-	-	-
QC05_230912	Trip_B	12 Sep 2023	Soil	1025750	-	-	-	-	-	-	-
QC05_RB	Rinsate	16 Oct 2023	Water	1035652	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC06_FB	Field_B	16 Oct 2023	Water	1035652	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC07_TB	Trip_B	16 Oct 2023	Soil	1035652	-	-	-	-	-	-	-
QC08_230921	Rinsate	20 Sep 2023	Water	1028239	<2	<2	<0.2	<0.2	<0.2	-	<0.2
QC09_230921	Field_B	20 Sep 2023	Water	1028239	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC12_230921	Field_B	21 Sep 2023	Water	1029417	-	-	-	-	-	-	-
QC13_230921	Rinsate	21 Sep 2023	Water	1029417	-	-	-	-	-	-	-
QC122	Rinsate	26 Oct 2023	Water	1039102	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
QC123	Field_B	26 Oct 2023	Water	1039102	<2	<2	<0.2	<0.2	<0.2	<5	<0.2
Trip Blank	Trip_B	26 Oct 2023	Soil	1039102	-	-	-	-	-	-	-
TRIP BLANK	Trip_B	18 Oct 2023	Soil	1036638	-	-	-	-	-	-	-

	Metals																
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	4,4-DDE	α-BHC	Aldrin	Aldrin + Dieldrin	β-BHC	chlordane	d-BHC	DDD	DDT
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	2	5	5	0.1	2	5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Field ID	Sample Type	Date	Matrix Type	Lab Report Number															
V07_230908	Normal	07 Sep 2023	Soil	1024818	9.4	<0.5	75	9.6	9.5	<0.1	21	26	<0.05	<0.05	<0.05	<0.05	<0.05	1.2	<0.05
QC01 DUP	Field_D	07 Sep 2023	Soil	1024818	8.4	<0.5	78	9.9	11	<0.1	21	24	<0.05	<0.05	<0.05	<0.05	<0.05	0.7	<0.05
RPD					11	0	4	3	15	0	0	8	0	0	0	0	0	53	0
V07_230908	Normal	07 Sep 2023	Soil	1024818	9.4	<0.5	75	9.6	9.5	<0.1	21	26	<0.05	<0.05	<0.05	<0.05	<0.05	1.2	<0.05
QC02 TRIP	Interlab_D	07 Sep 2023	Soil	EB2328260	7	<1	87	10	<5	<0.1	19	13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD					29	0	15	4	62	0	10	67	0	0	0	0	0	184	0
HS07_NW_230912	Normal	12 Sep 2023	Soil	1025750	7.8	<0.5	46	8.8	5.9	<0.1	43	36	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC03_230912	Field_D	12 Sep 2023	Soil	1025750	2.1	<0.5	40	6.4	<5	<0.1	31	23	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
RPD					115	0	14	32	17	0	32	44	0	0	0	0	0	0	0
HS07_NW_230912	Normal	12 Sep 2023	Soil	1025750	7.8	<0.5	46	8.8	5.9	<0.1	43	36	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC04_230912	Interlab_D	12 Sep 2023	Soil	EB2328861	<5	<1	27	5	<5	<0.1	22	15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD					44	0	52	55	17	0	65	82	0	0	0	0	0	0	0
HS10_NW_230918	Normal	18 Sep 2023	Soil	1027451	8.5	<0.5	45	9.1	<5	<0.1	24	23	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC01-230918	Field_D	18 Sep 2023	Soil	1027451	15	<0.5	22	29	98	<0.1	9.5	160	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
RPD					55	0	69	104	181	0	87	150	0	0	0	0	0	0	0
HS10_NW_230918	Normal	18 Sep 2023	Soil	1027451	8.5	<0.5	45	9.1	<5	<0.1	24	23	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC02_230918	Interlab_D	18 Sep 2023	Soil	EB2329349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSB03_ASH_230920	Normal	20 Sep 2023	Soil	1028239	21	<0.5	11	37	48	<0.1	11	72	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC06_230920	Field_D	20 Sep 2023	Soil	1028239	18	<0.5	8.3	40	62	<0.1	11	79	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
RPD					15	0	28	8	25	0	0	9	0	0	0	0	0	0	0
HSB03_ASH_230920	Normal	20 Sep 2023	Soil	1028239	21	<0.5	11	37	48	<0.1	11	72	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC 07_230920 (TRIP)	Interlab_D	20 Sep 2023	Soil	EB2329798	24	<1	6	39	44	<0.1	9	80	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD					13	0	59	5	9	0	20	11	0	0	0	0	0	0	0
TR03_TRENCH FLOOR_230921	Normal	21 Sep 2023	Soil	1029417	2.6	<0.5	67	15	13	<0.1	37	29	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC14_230921	Field_D	21 Sep 2023	Soil	1029417	4.1	<0.5	130	21	5.2	<0.1	72	42	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
RPD					45	0	64	33	86	0	64	37	0	0	0	0	0	0	0
TR03_TRENCH FLOOR_230921	Normal	21 Sep 2023	Soil	1029417	2.6	<0.5	67	15	13	<0.1	37	29	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC15_230921	Interlab_D	21 Sep 2023	Soil	EB2330054	<5	<1	58	11	<5	<0.1	36	16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD					0	0	14	31	89	0	3	58	0	0	0	0	0	0	0
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	7.3	<0.5	6.6	7.6	94	<0.1	<5	50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC03_DUP_231016	Field_D	16 Oct 2023	Soil	1035652	16	<0.5	17	17	81	<0.1	8.7	120	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
RPD					75	0	88	76	15	0	54	82	0	0	0	0	0	0	0
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	7.3	<0.5	6.6	7.6	94	<0.1	<5	50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC01_DUP_231016	Field_D	16 Oct 2023	Soil	1035652	5.9	<0.5	29	15	49	<0.1	9.7	120	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
RPD					21	0	126	65	63	0	64	82	0	0	0	0	0	0	0
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	7.3	<0.5	6.6	7.6	94	<0.1	<5	50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC04_Trip	Interlab_D	16 Oct 2023	Soil	EB2332532	7	<1	10	15	39	<0.1	6	44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD					4	0	41	65	83	0	18	13	0	0	0	0	0	0	0
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	7.3	<0.5	6.6	7.6	94	<0.1	<5	50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC02_Trip	Interlab_D	16 Oct 2023	Soil	EB2332532	7	<1	11	10	76	<0.1	5	53	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD					4	0	50	27	21	0	0	6	0	0	0	0	0	0	0
TS03_B	Normal	18 Oct 2023	Soil	1036638	5.6	<0.4	78	17	<5	<0.1	25	23	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC102	Interlab_D	18 Oct 2023	Soil	ES2336387	6	<1	96	16	<5	<0.1	25	27	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD					7	0	21	6	0	0	0	16	0	0	0	0	0	0	0
TS04_B	Normal	18 Oct 2023	Soil	1036638	9.2	<0.4	120	24	<5	<0.1	49	30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC101	Field_D	18 Oct 2023	Soil	1036638	6.5	<0.4	97	20	<5	<0.1	33	31	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
RPD					34	0	21	18	0	0	39	3	0	0	0	0	0	0	0
TS05_W1	Normal	18 Oct 2023	Soil	1036638	12	<0.4	110	13	<5	<0.1	24	24	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC103	Field_D	18 Oct 2023	Soil	1036638	6.1	<0.4	62	11	10	<0.1	20	30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
RPD					65	0	56	17	67	0	18	22	0	0	0	0	0	0	0
TS05_W1	Normal	18 Oct 2023	Soil	1036638	12	<0.4	110	13	<5	<0.1	24	24	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC104	Interlab_D	18 Oct 2023	Soil	ES2336387	8	<1	71	11	17	<0.1	22	45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD					40	0	43	17	109	0	9	61	0	0	0	0	0	0	0
A1	Normal	26 Oct 2023	Soil	1039102	6.2	<0.5	99	34	<5	<0.1	29	26	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
QC107	Field_D	26 Oct 2023	Soil	1039102	2.5	<0.5	120	27	5.0	<0.1	32	28	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05
RPD					85	0	19	23	0	0	10	7	0	0	0	0	0	0	0
A1	Normal	26 Oct 2023	Soil	1039102	6.2	<0.5	99	34	<5	<0.1	29	26	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05

					Metals																	
					Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	4,4-DDE	α-BHC	Aldrin	Aldrin + Dieldrin	β-BHC	chlordane	δ-BHC	DDD	DDT	
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
QC106	Field_D	26 Oct 2023	Soil	1039102	2.8	<0.5	120	30	<5	<0.1	32	28	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	
RPD					76	0	19	12	0	0	10	7	0	0	0	0	0	0	0	0	0	0
A1	Normal	26 Oct 2023	Soil	1039102	6.2	<0.5	99	34	<5	<0.1	29	26	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	
QC107	Interlab_D	26 Oct 2023	Soil	EB2334519	<5	<1	56	22	<5	<0.1	14	13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	
RPD					21	0	55	43	0	0	70	67	0	0	0	0	0	0	0	0	0	
C3	Normal	26 Oct 2023	Soil	1039102	<2	<0.5	47	<5	5.7	<0.1	15	15	<0.05	<0.05	<0.05	0.98	<0.05	<0.1	<0.05	<0.05	<0.05	
QC109	Field_D	26 Oct 2023	Soil	1039102	4.9	<0.5	120	16	9.2	<0.1	51	30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	
RPD					84	0	87	105	47	0	109	67	0	0	0	181	0	0	0	0	0	
C3	Normal	26 Oct 2023	Soil	1039102	<2	<0.5	47	<5	5.7	<0.1	15	15	<0.05	<0.05	<0.05	0.98	<0.05	<0.1	<0.05	<0.05	<0.05	
QC108	Field_D	26 Oct 2023	Soil	1039102	5.3	<0.5	49	9.1	22	<0.1	18	36	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	
RPD					90	0	4	58	118	0	18	82	0	0	0	181	0	0	0	0	0	
C3	Normal	26 Oct 2023	Soil	1039102	<2	<0.5	47	<5	5.7	<0.1	15	15	<0.05	<0.05	<0.05	0.98	<0.05	<0.1	<0.05	<0.05	<0.05	
QC109	Interlab_D	26 Oct 2023	Soil	EB2334519	<5	<1	35	<5	9	<0.1	9	10	<0.05	<0.05	<0.05	0.70	<0.05	<0.05	<0.05	<0.05	<0.2	
RPD					0	0	29	0	45	0	50	40	0	0	0	33	0	0	0	0	0	
C7	Normal	26 Oct 2023	Soil	1039102	9.5	<0.5	130	17	9.6	<0.1	34	36	<0.05	<0.05	0.09	0.49	<0.05	<0.1	<0.05	<0.05	<0.05	
QC121	Field_D	26 Oct 2023	Soil	1039102	9.9	<0.5	140	22	7.1	<0.1	41	42	<0.05	<0.05	0.07	0.07	<0.05	<0.1	<0.05	<0.05	<0.05	
RPD					4	0	7	26	30	0	19	15	0	0	25	150	0	0	0	0	0	
C7	Normal	26 Oct 2023	Soil	1039102	9.5	<0.5	130	17	9.6	<0.1	34	36	<0.05	<0.05	0.09	0.49	<0.05	<0.1	<0.05	<0.05	<0.05	
QC120	Field_D	26 Oct 2023	Soil	1039102	10	<0.5	120	18	15	<0.1	33	40	<0.05	<0.05	0.15	0.15	<0.05	<0.1	<0.05	<0.05	<0.05	
RPD					5	0	8	6	44	0	3	11	0	0	50	106	0	0	0	0	0	
C7	Normal	26 Oct 2023	Soil	1039102	9.5	<0.5	130	17	9.6	<0.1	34	36	<0.05	<0.05	0.09	0.49	<0.05	<0.1	<0.05	<0.05	<0.05	
QC121	Interlab_D	26 Oct 2023	Soil	EB2334519	6	<1	67	15	15	<0.1	24	37	<0.05	<0.05	0.19	1.63	<0.05	0.21	<0.05	<0.05	<0.2	
RPD					45	0	64	12	44	0	34	3	0	0	71	108	0	71	0	0	0	
D10	Normal	26 Oct 2023	Soil	1039102	6.1	<0.5	38	18	50	0.1	13	230	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	
QC117	Field_D	26 Oct 2023	Soil	1039102	8.0	<0.5	81	22	34	<0.1	27	120	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	
RPD					27	0	72	20	38	0	70	63	0	0	0	0	0	0	0	0	0	
D10	Normal	26 Oct 2023	Soil	1039102	6.1	<0.5	38	18	50	0.1	13	230	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	
QC116	Field_D	26 Oct 2023	Soil	1039102	7.7	<0.5	47	18	54	0.1	16	210	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	
RPD					23	0	21	0	8	0	21	9	0	0	0	0	0	0	0	0	0	
D10	Normal	26 Oct 2023	Soil	1039102	6.1	<0.5	38	18	50	0.1	13	230	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	
QC117	Interlab_D	26 Oct 2023	Soil	EB2334519	<5	<1	41	13	31	<0.1	11	100	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	
RPD					20	0	8	32	47	0	17	79	0	0	0	0	0	0	0	0	0	
E5	Normal	26 Oct 2023	Soil	1039102	5.0	<0.5	73	14	10	<0.1	21	25	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	<0.05	<0.05	<0.05	
QC111	Field_D	26 Oct 2023	Soil	1039102	4.6	<0.5	68	5.9	<5	<0.1	18	15	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.05	<0.05	<0.05	
RPD					8	0	7	81	67	0	15	50	0	0	0	0	0	67	0	0	0	
E5	Normal	26 Oct 2023	Soil	1039102	5.0	<0.5	73	14	10	<0.1	21	25	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	<0.05	<0.05	<0.05	
QC110	Field_D	26 Oct 2023	Soil	1039102	4.6	<0.5	67	7.1	<5	<0.1	20	16	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.05	<0.05	<0.05	
RPD					8	0	9	65	67	0	5	44	0	0	0	0	0	67	0	0	0	
E5	Normal	26 Oct 2023	Soil	1039102	5.0	<0.5	73	14	10	<0.1	21	25	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	<0.05	<0.05	<0.05	
QC111	Interlab_D	26 Oct 2023	Soil	EB2334519	<5	<1	38	7	8	<0.1	13	15	<0.05	<0.05	<0.05	<0.05	<0.05	0.65	<0.05	<0.05	<0.2	
RPD					0	0	63	67	22	0	47	50	0	0	0	0	0	48	0	0	0	
G7	Normal	26 Oct 2023	Soil	1039102	8.8	<0.5	91	23	14	<0.1	30	47	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	<0.05	<0.05	<0.05	
QC113	Field_D	26 Oct 2023	Soil	1039102																		

Appendix F.4 RPD Table

					Metals																
					Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	4,4-DDE	α-BHC	Aldrin	Aldrin + Dieldrin	β-BHC	Chlordane	δ-BHC	DDD	DDT
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
H9	Normal	26 Oct 2023	Soil	1039102	16	<0.5	130	18	13	<0.1	29	48	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
QC115	Field_D	26 Oct 2023	Soil	1039102	14	<0.5	140	15	9.4	<0.1	33	46	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
RPD					13	0	7	18	32	0	13	4	0	0	0	0	0	0	0	0	0
H9	Normal	26 Oct 2023	Soil	1039102	16	<0.5	130	18	13	<0.1	29	48	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
QC114	Field_D	26 Oct 2023	Soil	1039102	15	<0.5	160	17	<5	<0.1	32	34	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
RPD					6	0	21	6	89	0	10	34	0	0	0	0	0	0	0	0	0
HSB27	Normal	14 Dec 2023	Soil	1055969	5.7	<0.5	79	19	22	<0.1	27	150	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
QC101	Field_D	14 Dec 2023	Soil	1055969	3.9	<0.5	66	14	14	<0.1	20	95	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
RPD					38	0	18	30	44	0	30	45	0	0	0	0	0	0	0	0	0
HSB27	Normal	14 Dec 2023	Soil	1055969	5.7	<0.5	79	19	22	<0.1	27	150	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05
QC102	Interlab_D	14 Dec 2023	Soil	EB2340686	5	<1	42	16	20	<0.1	17	133	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2
RPD					13	0	61	17	10	0	45	12	0	0	0	0	0	0	0	0	0

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

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

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

	Organochlorine Pesticides																
	Dieldrin	Endosulfan I	Endosulfan II	Endrin	Endrin aldehyde	Endrin ketone	γ-BHC (Lindane)	Heptachlor	Methoxychlor	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Endosulfan	Endosulfan sulphate	Heptachlor epoxide	Hexachlorobenzene	Toxaphene	DDT+DDE+DDD
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.5	0.05

Field ID	Sample Type	Date	Matrix Type	Lab Report Number																
V07_230908	Normal	07 Sep 2023	Soil	1024818	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.25	1.25	-	<0.05	<0.05	<0.05	<0.5
QC01 DUP	Field_D	07 Sep 2023	Soil	1024818	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.7	0.7	-	<0.05	<0.05	<0.05	<0.5
RPD					0	0	0	0	0	0	0	0	0	56	56	-	0	0	0	0
V07_230908	Normal	07 Sep 2023	Soil	1024818	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.25	1.25	-	<0.05	<0.05	<0.05	<0.5
QC02 TRIP	Interlab_D	07 Sep 2023	Soil	EB2328260	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-
HS07_NW_230912	Normal	12 Sep 2023	Soil	1025750	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC03_230912	Field_D	12 Sep 2023	Soil	1025750	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-
HS07_NW_230912	Normal	12 Sep 2023	Soil	1025750	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC04_230912	Interlab_D	12 Sep 2023	Soil	EB2328861	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-
HS10_NW_230918	Normal	18 Sep 2023	Soil	1027451	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC01-230918	Field_D	18 Sep 2023	Soil	1027451	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-
HS10_NW_230918	Normal	18 Sep 2023	Soil	1027451	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC02_230918	Interlab_D	18 Sep 2023	Soil	EB2329349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HSB03_ASH_230920	Normal	20 Sep 2023	Soil	1028239	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC06_230920	Field_D	20 Sep 2023	Soil	1028239	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-
HSB03_ASH_230920	Normal	20 Sep 2023	Soil	1028239	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC 07_230920 (TRIP)	Interlab_D	20 Sep 2023	Soil	EB2329798	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-
TR03_TRENCH FLOOR_230921	Normal	21 Sep 2023	Soil	1029417	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC14_230921	Field_D	21 Sep 2023	Soil	1029417	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-
TR03_TRENCH FLOOR_230921	Normal	21 Sep 2023	Soil	1029417	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC15_230921	Interlab_D	21 Sep 2023	Soil	EB2330054	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC03_DUP_231016	Field_D	16 Oct 2023	Soil	1035652	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC01_DUP_231016	Field_D	16 Oct 2023	Soil	1035652	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC04_Trip	Interlab_D	16 Oct 2023	Soil	EB2332532	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC02_Trip	Interlab_D	16 Oct 2023	Soil	EB2332532	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-
TS03_B	Normal	18 Oct 2023	Soil	1036638	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	<0.5
QC102	Interlab_D	18 Oct 2023	Soil	ES2336387	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-
TS04_B	Normal	18 Oct 2023	Soil	1036638	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	<0.5
QC101	Field_D	18 Oct 2023	Soil	1036638	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	<0.5
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0
TS05_W1	Normal	18 Oct 2023	Soil	1036638	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	<0.5
QC103	Field_D	18 Oct 2023	Soil	1036638	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	<0.5
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0
TS05_W1	Normal	18 Oct 2023	Soil	1036638	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	<0.5
QC104	Interlab_D	18 Oct 2023	Soil	ES2336387	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-
A1	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
QC107	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-
A1	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-

					Organochlorine Pesticides																
					Dieldrin	Endosulfan I	Endosulfan II	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Methoxychlor	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Endosulfan	Endosulfan sulphate	Heptachlor epoxide	Hexachlorobenzene	Toxaphene	DDT+DDE+DDD
QC106	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0
A1	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC107	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-	0
C3	Normal	26 Oct 2023	Soil	1039102	0.98	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.98	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC109	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					181	0	0	0	0	0	0	0	0	163	0	-	0	0	0	-	0
C3	Normal	26 Oct 2023	Soil	1039102	0.98	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.98	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC108	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					181	0	0	0	0	0	0	0	0	163	0	-	0	0	0	-	0
C3	Normal	26 Oct 2023	Soil	1039102	0.98	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.98	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC109	Interlab_D	26 Oct 2023	Soil	EB2334519	0.70	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
RPD					33	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-	0
C7	Normal	26 Oct 2023	Soil	1039102	0.40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.49	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC121	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					156	0	0	0	0	0	0	0	0	132	0	-	0	0	0	-	0
C7	Normal	26 Oct 2023	Soil	1039102	0.40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.49	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC120	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					156	0	0	0	0	0	0	0	0	106	0	-	0	0	0	-	0
C7	Normal	26 Oct 2023	Soil	1039102	0.40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.49	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC121	Interlab_D	26 Oct 2023	Soil	EB2334519	1.44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
RPD					113	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-	0
D10	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC117	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0
D10	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC116	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0
D10	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC117	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-	0
E5	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	0.4	-	<0.05	<0.05	<0.05	-	<0.05
QC111	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	0.2	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	67	67	-	0	0	0	-	0
E5	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	0.4	-	<0.05	<0.05	<0.05	-	<0.05
QC110	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	0.2	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	67	67	-	0	0	0	-	0
E5	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	0.4	-	<0.05	<0.05	<0.05	-	<0.05
QC111	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-	0
G7	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	0.4	-	<0.05	<0.05	<0.05	-	<0.05
QC113	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	0.2	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	67	67	-	0	0	0	-	0
G7	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	0.4	-	<0.05	<0.05	<0.05	-	<0.05
QC112	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	0.2	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	67	67	-	0	0	0	-	0
G7	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	0.4	-	<0.05	<0.05	<0.05	-	<0.05
QC113	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-	0
H1	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC119	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0
H1	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC118	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0
H1	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC119	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-	0
H6	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1	1	-	<0.05	<0.05	<0.05	-	<0.05
QC115	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-	0

					Organochlorine Pesticides																
					Dieldrin	Endosulfan I	Endosulfan II	Endrin	Endrin aldehyde	Endrin ketone	γ-BHC (Lindane)	Heptachlor	Methoxychlor	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	Endosulfan	Endosulfan sulphate	Heptachlor epoxide	Hexachlorobenzene	Toxaphene	DDT+DDE+DDD
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H9	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC115	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0
H9	Normal	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC114	Field_D	26 Oct 2023	Soil	1039102	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0
HSB27	Normal	14 Dec 2023	Soil	1055969	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC101	Field_D	14 Dec 2023	Soil	1055969	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0
HSB27	Normal	14 Dec 2023	Soil	1055969	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	-	<0.05	<0.05	<0.05	-	<0.05
QC102	Interlab_D	14 Dec 2023	Soil	EB2340686	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05
RPD					0	0	0	0	0	0	0	0	0	-	-	-	0	0	0	-	0

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

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 5

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

EQL		
	Chlordane (cis)	Chlordane (trans)
	mg/kg	mg/kg
	0.05	0.05

Field ID	Sample Type	Date	Matrix Type	Lab Report Number		
V07_230908	Normal	07 Sep 2023	Soil	1024818	-	-
QC01 DUP	Field_D	07 Sep 2023	Soil	1024818	-	-
RPD					-	-
V07_230908	Normal	07 Sep 2023	Soil	1024818	-	-
QC02 TRIP	Interlab_D	07 Sep 2023	Soil	EB2328260	<0.05	<0.05
RPD					-	-
HS07_NW_230912	Normal	12 Sep 2023	Soil	1025750	-	-
QC03_230912	Field_D	12 Sep 2023	Soil	1025750	-	-
RPD					-	-
HS07_NW_230912	Normal	12 Sep 2023	Soil	1025750	-	-
QC04_230912	Interlab_D	12 Sep 2023	Soil	EB2328861	<0.05	<0.05
RPD					-	-
HS10_NW_230918	Normal	18 Sep 2023	Soil	1027451	-	-
QC01-230918	Field_D	18 Sep 2023	Soil	1027451	-	-
RPD					-	-
HS10_NW_230918	Normal	18 Sep 2023	Soil	1027451	-	-
QC02_230918	Interlab_D	18 Sep 2023	Soil	EB2329349	-	-
RPD					-	-
HSB03_ASH_230920	Normal	20 Sep 2023	Soil	1028239	-	-
QC06_230920	Field_D	20 Sep 2023	Soil	1028239	-	-
RPD					-	-
HSB03_ASH_230920	Normal	20 Sep 2023	Soil	1028239	-	-
QC 07_230920 (TRIP)	Interlab_D	20 Sep 2023	Soil	EB2329798	<0.05	<0.05
RPD					-	-
TR03_TRENCH FLOOR_230921	Normal	21 Sep 2023	Soil	1029417	-	-
QC14_230921	Field_D	21 Sep 2023	Soil	1029417	-	-
RPD					-	-
TR03_TRENCH FLOOR_230921	Normal	21 Sep 2023	Soil	1029417	-	-
QC15_230921	Interlab_D	21 Sep 2023	Soil	EB2330054	<0.05	<0.05
RPD					-	-
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	-	-
QC03_DUP_231016	Field_D	16 Oct 2023	Soil	1035652	-	-
RPD					-	-
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	-	-
QC01_DUP_231016	Field_D	16 Oct 2023	Soil	1035652	-	-
RPD					-	-
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	-	-
QC04_Trip	Interlab_D	16 Oct 2023	Soil	EB2332532	<0.05	<0.05
RPD					-	-
HSB06_ASH_231016	Normal	16 Oct 2023	Soil	1035652	-	-
QC02_Trip	Interlab_D	16 Oct 2023	Soil	EB2332532	<0.05	<0.05
RPD					-	-
TS03_B	Normal	18 Oct 2023	Soil	1036638	-	-
QC102	Interlab_D	18 Oct 2023	Soil	ES2336387	<0.05	<0.05
RPD					-	-
TS04_B	Normal	18 Oct 2023	Soil	1036638	-	-
QC101	Field_D	18 Oct 2023	Soil	1036638	-	-
RPD					-	-
TS05_W1	Normal	18 Oct 2023	Soil	1036638	-	-
QC103	Field_D	18 Oct 2023	Soil	1036638	-	-
RPD					-	-
TS05_W1	Normal	18 Oct 2023	Soil	1036638	-	-
QC104	Interlab_D	18 Oct 2023	Soil	ES2336387	<0.05	<0.05
RPD					-	-
A1	Normal	26 Oct 2023	Soil	1039102	-	-
QC107	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
A1	Normal	26 Oct 2023	Soil	1039102	-	-

					Chlordane (cis)	Chlordane (trans)
					mg/kg	mg/kg
QC106	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
A1	Normal	26 Oct 2023	Soil	1039102	-	-
QC107	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05
RPD					-	-
C3	Normal	26 Oct 2023	Soil	1039102	-	-
QC109	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
C3	Normal	26 Oct 2023	Soil	1039102	-	-
QC108	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
C3	Normal	26 Oct 2023	Soil	1039102	-	-
QC109	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05
RPD					-	-
C7	Normal	26 Oct 2023	Soil	1039102	-	-
QC121	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
C7	Normal	26 Oct 2023	Soil	1039102	-	-
QC120	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
C7	Normal	26 Oct 2023	Soil	1039102	-	-
QC121	Interlab_D	26 Oct 2023	Soil	EB2334519	0.09	0.12
RPD					-	-
D10	Normal	26 Oct 2023	Soil	1039102	-	-
QC117	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
D10	Normal	26 Oct 2023	Soil	1039102	-	-
QC116	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
D10	Normal	26 Oct 2023	Soil	1039102	-	-
QC117	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05
RPD					-	-
E5	Normal	26 Oct 2023	Soil	1039102	-	-
QC111	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
E5	Normal	26 Oct 2023	Soil	1039102	-	-
QC110	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
E5	Normal	26 Oct 2023	Soil	1039102	-	-
QC111	Interlab_D	26 Oct 2023	Soil	EB2334519	0.30	0.35
RPD					-	-
G7	Normal	26 Oct 2023	Soil	1039102	-	-
QC113	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
G7	Normal	26 Oct 2023	Soil	1039102	-	-
QC112	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
G7	Normal	26 Oct 2023	Soil	1039102	-	-
QC113	Interlab_D	26 Oct 2023	Soil	EB2334519	0.34	0.38
RPD					-	-
H1	Normal	26 Oct 2023	Soil	1039102	-	-
QC119	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
H1	Normal	26 Oct 2023	Soil	1039102	-	-
QC118	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
H1	Normal	26 Oct 2023	Soil	1039102	-	-
QC119	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05
RPD					-	-
H6	Normal	26 Oct 2023	Soil	1039102	-	-
QC115	Interlab_D	26 Oct 2023	Soil	EB2334519	<0.05	<0.05
RPD					-	-

					Chlordane (cis)	Chlordane (trans)
					mg/kg	mg/kg
H9	Normal	26 Oct 2023	Soil	1039102	-	-
QC115	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
H9	Normal	26 Oct 2023	Soil	1039102	-	-
QC114	Field_D	26 Oct 2023	Soil	1039102	-	-
RPD					-	-
HSB27	Normal	14 Dec 2023	Soil	1055969	-	-
QC101	Field_D	14 Dec 2023	Soil	1055969	-	-
RPD					-	-
HSB27	Normal	14 Dec 2023	Soil	1055969	-	-
QC102	Interlab_D	14 Dec 2023	Soil	EB2340686	<0.05	<0.05
RPD					-	-

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

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 5

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