

10th August 2023
NSW Land and Housing Corporation
Level 2, 31-39 Macquarie Street,
Parramatta, NSW 2150

Attn: Gerald Alexander

RE: 25-27 Boyd Street, Tweed Heads, NSW, 2485

PHASE 3 ASBESTOS CLEARANCE & SOIL TESTING LAHC 2023/250

Report Reference: CLR29082R01

Dear Mr. Alexander,

EnviroScience Solutions Pty Ltd were engaged by NSW Land and Housing Corporation to undertake soil sampling and a visual inspection post demolition, of the residential property located at 25-27 Boyd Street, Tweed Heads, NSW, 2845.

At the completion of demolition works, a visual inspection of the area was undertaken. The purpose of the inspection was to confirm that the asbestos containing materials and associated residues had been successfully removed. In addition to the visual clearance, two test pits were excavated within the house footprint and the back yard of the property to test for asbestos and chemical contaminants of concern at depth. It should be noted that this is not a clearance report that all asbestos products have been removed as the works were limited to the areas detailed in this report.

A visual inspection was undertaken on the 1st of August 2023 by Sam Ramsey, Licensed Asbestos Assessor No LAA001598 at the completion of the Demolition Works. Please refer to the images below, which depict the satisfactory completion of the removal works. Figure 1 below shows approximate locations of Test pits and stockpiles onsite.

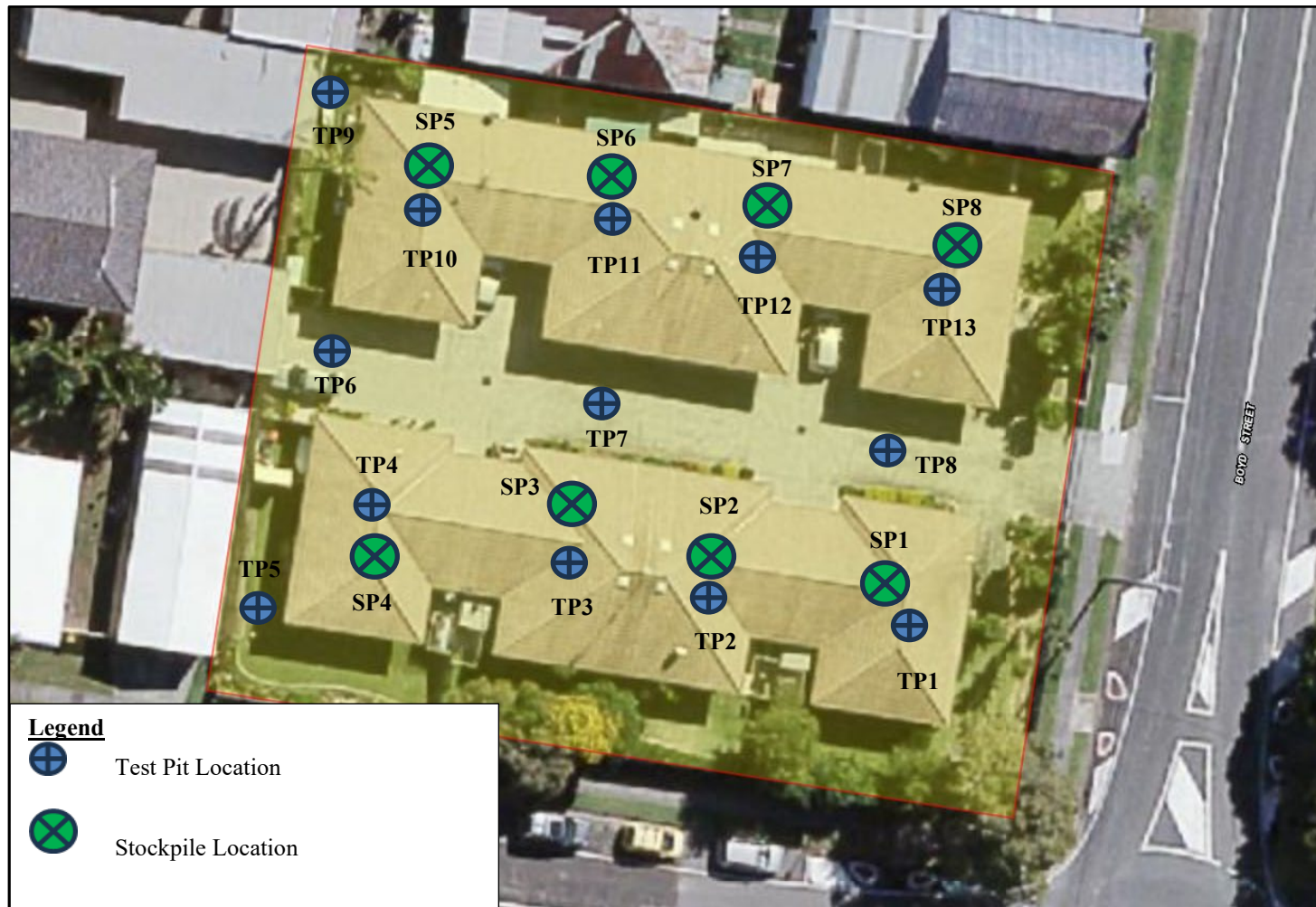






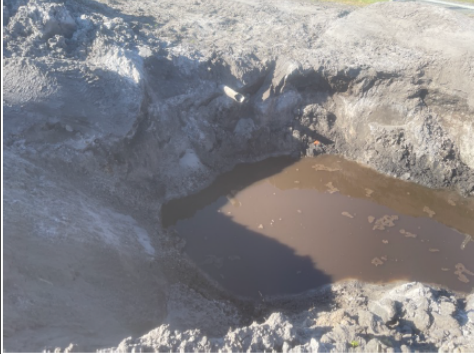

Figure 1: Location of samples collected for analysis


Table 1: Site after Demolition – 25-27 Boyd Street, Tweed Heads, NSW, 2485



Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177496 Longitude: 153.539688	Sand soil with rock and concrete fragments
	Latitude: -28.177483 Longitude: 153.539688	No asbestos observed
Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177481 Longitude: 153.539551	No asbestos observed, yellow sand
	Latitude: -28.177475 Longitude: 153.539536	No asbestos observed, gravel black sand and yellow sand


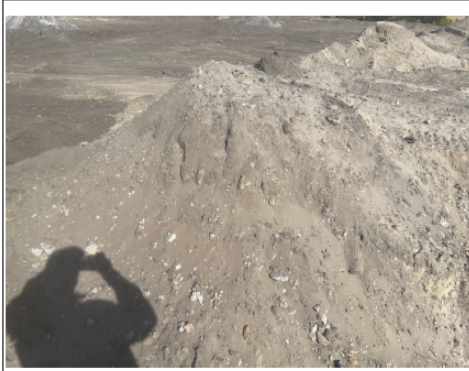
Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177473 Longitude: 153.539459	No asbestos observed, yellow sand
	Latitude: -28.177488 Longitude: 153.539444	No asbestos observed, grey sand and gravel

Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177488 Longitude: 153.539398	No asbestos observed, black sand and gravels
	Latitude: -28.177479 Longitude: 153.539368	No asbestos observed, grey and yellow sand with gravels



Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177519 Longitude: 153.539322	No asbestos observed, grey and black sand
	Latitude: -28.177416 Longitude: 153.539398	No asbestos observed, grey and black sand

Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177362 Longitude: 153.539490	No asbestos observed, white and grey sand
	Latitude: -28.177422 Longitude: 153.539886	No asbestos observed, grey and white sand

Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177296 Longitude: 153.539673	No asbestos observed, yellow sand and gravel
	Latitude: -28.177275 Longitude: 153.539688	No asbestos observed, yellow sand and gravel

Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177252 Longitude: 153.539597	No asbestos observed, yellow sand and gravel
	Latitude: -28.177286 Longitude: 153.539627	No asbestos observed, grey and yellow sand with gravels

Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177309 Longitude: 153.539551	No asbestos observed, yellow and grey sand and gravel
	Latitude: -28.177284 Longitude: 153.539536	No asbestos observed, grey and yellow sands with gravel

Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177212 Longitude: 153.539368	No asbestos observed, yellow and grey sand
	Latitude: -28.177229 Longitude: 153.539429	No asbestos observed, grey and yellow sand with gravel





Images of Sampling Locations	GPS Location	Comments
	Latitude: -28.177244 Longitude: 153.539368	No asbestos observed, yellow sand and gravel

Image	GPS Location	Comments
	Latitude: -28.177223 Longitude: 153.539444	No asbestos observed on surface
	Latitude: -28.177429 Longitude: 153.539825	No asbestos observed on surface

Image	GPS Location	Comments
	Latitude: -28.177586 Longitude: 153.539627	No asbestos observed on surface.

	<p>Latitude: -28.177519 Longitude: 153.539322</p>	<p>No asbestos observed on the surface.</p>
	<p>Latitude: -28.177416 Longitude: 153.539413</p>	<p>No asbestos observed on surface.</p>

Table 2: Showing location of services on site

Image	GPS Location	Comments
	<p>Latitude: -28.177412 Longitude: 153.539322</p>	
	<p>Latitude: -28.177494 Longitude: 153.539276</p>	



Latitude: -28.177326
Longitude: 153.539322

Image	GPS Location	Comments
	<p>Latitude: -28.177561 Longitude: 153.539734</p>	

One (1) test pit location was established within each unit footprint. The test pit was then excavated to an approximate depth of 500mm and one (1) sample was obtained from each test pit for asbestos and chemical analysis for a total of thirteen (13) samples. Additionally, one (1) sample was taken from each stockpile from the surface of the footprint of each property for a total of eight (8) samples.

Asbestos materials were not detected within the test pits or stockpiles. The soil surface also remains clear of asbestos debris. It should be noted that analysis for friable asbestos or asbestos fines all samples obtained were negative for asbestos (Table 2).

Eight (8) samples were obtained from the test pits and eight (8) samples from the former house footprints for chemical contamination analysis. The samples were sent to EnviroLab Chatswood on the 2nd of August 2023 and processed for analytes including: Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene, Naphthalene and xylene (BTEXN). The results were compared to the NEPM Residential A, Human Health Investigation Levels (HIL'S).

The analytical results for the samples taken do not exceed or trigger any of the HIL's for heavy metals hydrocarbon. The results from the analysis of the soils indicate that the soil material does not contain Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene, and xylene (BTEX) in excess of the method detection limits as described in the laboratory report (Appendix 2).

Table 3: Asbestos Results vs HIL A criteria (WA DOH, 2021)

Sample	Depth (mm)	Date Sampled	ACM (+7mm) (g)	FA (-7mm to +2mm) (g)	AF (-2mm) (g)	Asbestos Concentration (%w/w) ACM	Asbestos Concentration (% w/w) FA	Asbestos Concentration (%w/w) AF
Test Pit 1 – Unit 1	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Stockpile 1 – Unit 1	0-300	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 2 – Unit 2	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Stockpile 2 – Unit 2	0-300	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 3 – Unit 3	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Stockpile 3 – Unit 3	0-300	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 4 – Unit 4	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Stockpile 4 – Unit 4	0-300	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 5 – Rear Yard (SW)	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 6 – West End Driveway	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 7 – Centre Driveway	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 8 – East End Driveway	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 9 – Rear Yard (NW)	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 10 – Unit 5	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Stockpile 5 – Unit 5	0-300	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 11 – Unit 6	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Stockpile 6 – Unit 6	0-300	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 12 – Unit7	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Stockpile 7 – Unit 7	0-300	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Test Pit 13 – Unit8	0-500	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Stockpile 8 – Unit 8	0-300	1/08/2023	NAD*	NAD*	NAD*	NAD*	NAD*	NAD*
Residential A Screening Levels Bonded ACM (%w/w)						0.01% w/w		
All Site Uses FA (%w/w)						0.001%w/w		
All Site Uses AF (%w/w)								0.001%w/w
*NAD (No Asbestos Detected)								

Table 4: Heavy Metals Results vs HIL A Criteria

Sample	Depth (mm)	Date Sampled	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Test Pit 1 – Unit 1	0-500	1/08/2023	<4	<0.4	2	13	55	<0.1	2	92
Stockpile 1 – Unit 1	0-300	1/08/2023	<4	<0.4	2	8	19	<0.1	1	34
Test Pit 2 – Unit 2	0-500	1/08/2023	<4	<0.4	2	30	33	<0.1	6	58
Stockpile 2 – Unit 2	0-300	1/08/2023	<4	<0.4	2	<1	2	<0.1	<1	8
Test Pit 3 – Unit 3	0-500	1/08/2023	<4	<0.4	<1	4	23	<0.1	<1	48
Stockpile 3 – Unit 3	0-300	1/08/2023	<4	<0.4	1	2	6	<0.1	<1	16
Test Pit 4 – Unit 4	0-500	1/08/2023	<4	<0.4	4	8	27	<0.1	2	100
Stockpile 4 – Unit 4	0-300	1/08/2023	<4	<0.4	2	2	13	<0.1	<1	29
Test Pit 5 – Rear Yard (SW)	0-500	1/08/2023	<4	<0.4	2	13	36	<0.1	2	63
Test Pit 6 – West End Driveway	0-500	1/08/2023	<4	<0.4	<1	4	2	<0.1	<1	17
Test Pit 7 – Centre Driveway	0-500	1/08/2023	<4	<0.4	1	8	26	<0.1	<1	96
Test Pit 8 – East End Driveway	0-500	1/08/2023	<4	<0.4	<1	1	5	<0.1	<1	13
Test Pit 9 – Rear Yard (NW)	0-500	1/08/2023	<4	<0.4	41	28	240	<0.1	4	130
Test Pit 10 – Unit 5	0-500	1/08/2023	<4	<0.4	2	15	49	<0.1	2	130
Stockpile 5 – Unit 5	0-300	1/08/2023	<4	<0.4	2	8	83	<0.1	1	85
Test Pit 11 – Unit 6	0-500	1/08/2023	<4	<0.4	1	25	16	<0.1	3	54
Stockpile 6 – Unit 6	0-300	1/08/2023	<4	<0.4	2	3	14	<0.1	<1	12
Test Pit 12 – Unit7	0-500	1/08/2023	<4	<0.4	3	14	62	<0.1	3	100
Stockpile 7 – Unit 7	0-300	1/08/2023	<4	<0.4	2	11	18	<0.1	<1	28
Test Pit 13 – Unit8	0-500	1/08/2023	<4	<0.4	1	8	20	<0.1	1	30
Stockpile 8 – Unit 8	0-300	1/08/2023	4	<0.4	2	42	28	<0.1	10	50
95%upper confidence Level			N/A	N/A	8.06	17.03	58.78	N/A	4.2	78.06
Residential A Health Based Levels (mg/kg)			100	20	100	6000	300	40	400	7400

Table 5: TRH & BTEX Results vs HSL

Sample	Depth (mm)	Date Sampled	TRH C6-C10 (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Naphthalene (mg/kg)	Benzene (mg/kg)
Test Pit 1 – Unit 1	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Stockpile 1 – Unit 1	0-300	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 2 – Unit 2	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Stockpile 2 – Unit 2	0-300	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 3 – Unit 3	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Stockpile 3 – Unit 3	0-300	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 4 – Unit 4	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Stockpile 4 – Unit 4	0-300	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 5 – Rear Yard (SW)	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 6 – West End Driveway	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 7 – Centre Driveway	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 8 – East End Driveway	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 9 – Rear Yard (NW)	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 10 – Unit 5	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Stockpile 5 – Unit 5	0-300	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 11 – Unit 6	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Stockpile 6 – Unit 6	0-300	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 12 – Unit7	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Stockpile 7 – Unit 7	0-300	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Test Pit 13 – Unit8	0-500	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
Stockpile 8 – Unit 8	0-300	1/08/2023	<25	<0.5	<1	<1	<1	<0.2
95%upper confidence Level			N/A	N/A	N/A	N/A	N/A	N/A
Residential A Health Based Levels (mg/kg)			4400	14000	4500	12000	1400	100

Table 6: TRH Vs HIL A Levels

Sample	Depth (mm)	Date Sampled	TRH C10-C16 (mg/kg)	TRH C16-C34 (mg/kg)	TRH C34-C40 (mg/kg)
Test Pit 1 – Unit 1	0-500	1/08/2023	<50	<100	<100
Stockpile 1 – Unit 1	0-300	1/08/2023	<50	<100	<100
Test Pit 2 – Unit 2	0-500	1/08/2023	<50	<100	<100
Stockpile 2 – Unit 2	0-300	1/08/2023	<50	<100	<100
Test Pit 3 – Unit 3	0-500	1/08/2023	<50	<100	<100
Stockpile 3 – Unit 3	0-300	1/08/2023	<50	<100	<100
Test Pit 4 – Unit 4	0-500	1/08/2023	<50	<100	<100
Stockpile 4 – Unit 4	0-300	1/08/2023	<50	<100	<100
Test Pit 5 – Rear Yard (SW)	0-500	1/08/2023	<50	<100	<100
Test Pit 6 – West End Driveway	0-500	1/08/2023	<50	<100	<100
Test Pit 7 – Centre Driveway	0-500	1/08/2023	<50	<100	<100
Test Pit 8 – East End Driveway	0-500	1/08/2023	<50	<100	<100
Test Pit 9 – Rear Yard (NW)	0-500	1/08/2023	<50	<100	<100
Test Pit 10 – Unit 5	0-500	1/08/2023	<50	<100	<100
Stockpile 5 – Unit 5	0-300	1/08/2023	<50	<100	<100
Test Pit 11 – Unit 6	0-500	1/08/2023	<50	<100	<100
Stockpile 6 – Unit 6	0-300	1/08/2023	<50	<100	<100
Test Pit 12 – Unit7	0-500	1/08/2023	<50	<100	<100
Stockpile 7 – Unit 7	0-300	1/08/2023	<50	<100	<100
Test Pit 13 – Unit8	0-500	1/08/2023	<50	<100	<100
Stockpile 8 – Unit 8	0-300	1/08/2023	<50	<100	<100
95%upper confidence Level			N/A	N/A	N/A
Residential A Health Based Levels (mg/kg)			3300	4500	6300

Accessing of the area can safely proceed. Backfilling of test pits and respreading of stockpiled soils can be undertaken.

Reported by:



Juliet Duffy MSM *Syd Uni*

Director, Occupational Hygienist

Asbestos Assessor Licence No: LAA 000 102

Appendix 1 – Soil Sampling Analysis Results– EnviroScience Solutions A29082-R1
Appendix 2 – Envirolab Certificate of Analysis 329589

LIMITATIONS

The clearance inspection was limited to areas that are outlined in this report. The following limitations also apply to cleared demolition sites and remediated contaminated areas.

- 1 To the extent permitted by law, EnviroScience Solutions Pty Ltd will not be responsible in tort, contract or otherwise for any loss or damage, including for any personal injuries or death, or any consequential loss, loss of markets and pure economic loss, suffered by the Customer, whether or not the loss or damage occurs in the course of performance by EnviroScience Solutions of this contract or in events which are in the contemplation of EnviroScience Solutions and/or the Customer or in events which are foreseeable by EnviroScience Solutions and/or the Customer.
- 2 To the extent that liability has not been effectively excluded by the preceding clause, then EnviroScience Solutions limits its liability to:
 - (a) The supply of services again; or
 - (b) The payment of the cost of supplying the services again, at the election of EnviroScience Solutions Pty Ltd.

LABORATORY ANALYSIS REPORT
Asbestos Identification Report - Soil

Report No: B29082-R1	Report Date: Friday, 4 August 2023
Client: NSW Land & Housing Corporation	Analysed Date: Friday, 4 August 2023
Client Address: Locked Bag 4001, Ashfield, NSW, 1800	Laboratory Receival Date: Friday, 4 August 2023
	Sampled Date: Tuesday, 1 August 2023
	Sampled by : Sam Ramsey
Attention: Gerald Alexander	Approved Identifier and Signatory: Arpit Dabhi
Sampled From: 25-27 Boyd Street, Tweed Heads, NSW 2485	
Site Sample Method:	A 10 litre soil sample was collected from each sampling point. The samples were sieved with a 7mm screen on site. The +7mm fraction of the samples was spread out and examined for pieces with a potential to contain asbestos. Any fragments of material suspected of containing asbestos were extracted, given a sample number and subjected to further analysis. A representative soil sample was then collected from the sieved sample, labelled and transported back to EnviroScience Solutions laboratory. The soil sample comprised a minimum of 500ml of soil and was contained in a labelled ziplock plastic bag.
Test Method:	Polarised Light Microscopy (PLM) including Dispersion Staining (DS), EnviroScience Solutions in-house laboratory method, in accordance with Australian Standard AS4964-2004 'Method for the qualitative identification of asbestos in bulk samples'. Accredited for compliance with ISO/IEC:17025-Testing. At reporting Limit of 0.1g/kg.
Subsampling Soil Method:	If required, the whole of the laboratory sample was dried. The -7mm fraction was sieved with a 2mm screen. The -7 to +2mm fraction of the sample was examined for pieces with a potential to contain asbestos using a stereo microscope. Any fragments of material suspected of containing asbestos were extracted and subjected to further analysis. As per ISO 3082:2009(E), a sub-sample approximately 30 to 60g of the -2mm fraction of the sample was created by coning and quartering. This sample was examined using a stereo microscope, any -2mm fragments of suspected asbestos material or asbestos fines were extracted for analysis. Trace analysis was carried out on the remainder of the sample to determine whether it contained respirable asbestos fibres at a level above the reporting limit of 0.1g/kg. Note that taking a sub-sample of the -2mm fraction means that the result may not be representative of the whole sample.

LABORATORY ANALYSIS REPORT
Asbestos Identification Report - Soil

Report No: B29082-R1

Report Date: Friday, 4 August 2023

Client: NSW Land & Housing Corporation

Analysed Date: Friday, 4 August 2023

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk	Weight	Result.
29082-S1 835gm	SP1	Brown Soil	+7mm 401gm	Rock - 401 gm		Organic
			-7 +2mm 103gm	Nil		Organic
		Sub Sample	-2mm 58gm	Nil		Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk	Weight	Result.
29082-S2 811gm	TP1_0.0-0.5	Brown Soil	+7mm 282gm	Rock - 282 gm		Organic
			-7 +2mm 251gm	Nil		Organic
		Sub Sample	-2mm 54gm	Nil		Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk	Weight	Result.
29082-S3 713gm	SP2	Brown Soil	+7mm 148gm	Rock - 148 gm		Organic
			-7 +2mm 207gm	Nil		Organic
		Sub Sample	-2mm 59gm	Nil		Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

LABORATORY ANALYSIS REPORT
Asbestos Identification Report - Soil

Report No: B29082-R1

Report Date: Friday, 4 August 2023

Client: NSW Land & Housing Corporation

Analysed Date: Friday, 4 August 2023

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S4 845gm	TP2_0.0-0.5	Brown Soil	+7mm 313gm	Rock - 313 gm	Organic
			-7 +2mm 221gm	Nil	Organic
		Sub Sample	-2mm 64gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S5 758gm	SP3	Brown Soil	+7mm 153gm	Rock - 153 gm	Organic
			-7 +2mm 166gm	Nil	Organic
		Sub Sample	-2mm 57gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S6 423gm	TP3_0.0-0.5	Brown Soil	+7mm 147gm	Rock - 147 gm	Organic
			-7 +2mm 101gm	Nil	Organic
		Sub Sample	-2mm 54gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

LABORATORY ANALYSIS REPORT
Asbestos Identification Report - Soil

Report No: B29082-R1

Report Date: Friday, 4 August 2023

Client: NSW Land & Housing Corporation

Analysed Date: Friday, 4 August 2023

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S7 603gm	SP4	Brown Soil	+7mm 227gm	Rock - 227 gm	Organic
			-7 +2mm 164gm	Nil	Organic
		Sub Sample	-2mm 54gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S8 730gm	TP4_0.0-0.5	Brown Soil	+7mm 297gm	Rock - 297 gm	Organic
			-7 +2mm 184gm	Nil	Organic
		Sub Sample	-2mm 57gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S9 749gm	TP5_0.0-0.9	Brown Soil	+7mm 266gm	Rock - 266 gm	Organic
			-7 +2mm 198gm	Nil	Organic
		Sub Sample	-2mm 61gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

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Client: NSW Land & Housing Corporation

Analysed Date: Friday, 4 August 2023

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S10 499gm	TP6_0.0-0.5	Brown Soil	+7mm 97gm	Rock - 97 gm	Organic
			-7 +2mm 183gm	Nil	Organic
		Sub Sample	-2mm 58gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S11 505gm	TP7_0.0-0.5	Brown Soil	+7mm 129gm	Rock - 129 gm	Organic
			-7 +2mm 204gm	Nil	Organic
		Sub Sample	-2mm 57gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S12 450gm	TP8_0.0-0.5	Brown Soil	+7mm 115gm	Rock - 115 gm	Organic
			-7 +2mm 107gm	Nil	Organic
		Sub Sample	-2mm 54gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

LABORATORY ANALYSIS REPORT
Asbestos Identification Report - Soil

Report No: B29082-R1

Report Date: Friday, 4 August 2023

Client: NSW Land & Housing Corporation

Analysed Date: Friday, 4 August 2023

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S13 582gm	TP9_0.0-0.5	Brown Soil	+7mm 246gm	Rock - 246 gm	Organic
			-7 +2mm 147gm	Nil	Organic
		Sub Sample	-2mm 60gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S14 667gm	SP5	Brown Soil	+7mm 292gm	Rock - 292 gm	Organic
			-7 +2mm 201gm	Nil	Organic
		Sub Sample	-2mm 59gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S15 626gm	TP10_0.0-0.5	Brown Soil	+7mm 306gm	Rock - 306 gm Nil	Organic
			-7 +2mm 65gm	Nil	Organic
		Sub Sample	-2mm 52gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

LABORATORY ANALYSIS REPORT
Asbestos Identification Report - Soil

Report No: B29082-R1

Report Date: Friday, 4 August 2023

Client: NSW Land & Housing Corporation

Analysed Date: Friday, 4 August 2023

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S16 640gm	SP6	Brown Soil	+7mm 226gm	Rock - 226 gm	Organic
			-7 +2mm 187gm	Nil	Organic
		Sub Sample	-2mm 59gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S17 743gm	TP11_0.0-0.5	Brown Soil	+7mm 287gm	Rock - 287 gm	Organic
			-7 +2mm 251gm	Nil	Organic
		Sub Sample	-2mm 57gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S18 495gm	SP7	Brown Soil	+7mm 176gm	Rock - 176 gm	Organic
			-7 +2mm 98gm	Nil	Organic
		Sub Sample	-2mm 56gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

LABORATORY ANALYSIS REPORT
Asbestos Identification Report - Soil

Report No: B29082-R1

Report Date: Friday, 4 August 2023

Client: NSW Land & Housing Corporation

Analysed Date: Friday, 4 August 2023

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S19 733gm	TP12_0.0-0.5	Brown Soil	+7mm 227gm	Rock - 227 gm	Organic
			-7 +2mm 222gm	Nil	Organic
		Sub Sample	-2mm 64gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S20 702gm	SP8	Brown Soil	+7mm 338gm	Rock - 338 gm	Organic
			-7 +2mm 163gm	Nil	Organic
		Sub Sample	-2mm 54gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

Sample No Weight	Sample Location	Sample Description	Fraction	Bulk Weight	Result.
29082-S21 773gm	TP13_0.0-0.5	Brown Soil	+7mm 299gm	Rock - 229 gm	Organic
			-7 +2mm 184gm	Nil	Organic
		Sub Sample	-2mm 52gm	Nil	Organic

Comment: No Respirable Asbestos Fibres above the reporting limit of 0.1gm/kg detected by trace analysis.

CERTIFICATE OF ANALYSIS 329589

Client Details

Client	EnviroScience Solutions
Attention	Sam Ramsey
Address	PO Box 1645, Dubbo, NSW, 2830

Sample Details

Your Reference	<u>29082, 25-27 Boyd St, Tweed Heads</u>
Number of Samples	21 Soil
Date samples received	03/08/2023
Date completed instructions received	03/08/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	10/08/2023
Date of Issue	09/08/2023
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
 Loren Bardwell, Development Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		329589-1	329589-2	329589-3	329589-4	329589-5
Your Reference	UNITS	TP1_0.0-0.5	SP1	TP2_0.0-0.05	SP2	TP3_0.0-0.5
Sample Location		House 1	House 1	House 2	House 2	House 3
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	05/08/2023	05/08/2023	05/08/2023	05/08/2023	05/08/2023
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	87	89	92	90	90

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		329589-6	329589-7	329589-8	329589-9	329589-10
Your Reference	UNITS	SP3	TP4_0.0-0.5	SP4	TP5_0.0-0.9	TP6_0.0-0.5
Sample Location		House 3	House 4	House 4	Rear Yard 1	West End Driveway
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	05/08/2023	05/08/2023	05/08/2023	05/08/2023	05/08/2023
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	87	86	83	88	88

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		329589-11	329589-12	329589-13	329589-14	329589-15
Your Reference	UNITS	TP7_0.0-0.5	TP8_0.0-0.5	TP9_0.0-0.5	TP10_0.0-0.5	SP5
Sample Location		Centre Driveway	East End Driveway	Rear Yard 2	House 5	House 5
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	05/08/2023	05/08/2023	05/08/2023	05/08/2023	05/08/2023
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	88	87	88	89	90

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		329589-16	329589-17	329589-18	329589-19	329589-20
Your Reference	UNITS	TP11_0.0-0.5	SP6	TP12_0.0-0.5	SP7	TP13_0.0-0.5
Sample Location		House 6	House 6	House 7	House 7	House 8
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	05/08/2023	05/08/2023	05/08/2023	05/08/2023	05/08/2023
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	87	91	99	96	97

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		329589-21
Your Reference	UNITS	SP8
Sample Location		House 8
Date Sampled		01/08/2023
Type of sample		Soil
Date extracted	-	04/08/2023
Date analysed	-	05/08/2023
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	91

svTRH (C10-C40) in Soil						
Our Reference		329589-1	329589-2	329589-3	329589-4	329589-5
Your Reference	UNITS	TP1_0.0-0.5	SP1	TP2_0.0-0.05	SP2	TP3_0.0-0.5
Sample Location		House 1	House 1	House 2	House 2	House 3
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	05/08/2023	05/08/2023	05/08/2023	05/08/2023	05/08/2023
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	90	90	89	91	90

svTRH (C10-C40) in Soil						
Our Reference		329589-6	329589-7	329589-8	329589-9	329589-10
Your Reference	UNITS	SP3	TP4_0.0-0.5	SP4	TP5_0.0-0.9	TP6_0.0-0.5
Sample Location		House 3	House 4	House 4	Rear Yard 1	West End Driveway
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	05/08/2023	05/08/2023	05/08/2023	05/08/2023	05/08/2023
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	89	91	91	89	89

svTRH (C10-C40) in Soil						
Our Reference		329589-11	329589-12	329589-13	329589-14	329589-15
Your Reference	UNITS	TP7_0.0-0.5	TP8_0.0-0.5	TP9_0.0-0.5	TP10_0.0-0.5	SP5
Sample Location		Centre Driveway	East End Driveway	Rear Yard 2	House 5	House 5
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	05/08/2023	05/08/2023	05/08/2023	05/08/2023	05/08/2023
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	91	94	100	125	87

svTRH (C10-C40) in Soil						
Our Reference		329589-16	329589-17	329589-18	329589-19	329589-20
Your Reference	UNITS	TP11_0.0-0.5	SP6	TP12_0.0-0.5	SP7	TP13_0.0-0.5
Sample Location		House 6	House 6	House 7	House 7	House 8
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	05/08/2023	05/08/2023	05/08/2023	05/08/2023	05/08/2023
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	94	107	80	87	90

svTRH (C10-C40) in Soil		
Our Reference		329589-21
Your Reference	UNITS	SP8
Sample Location		House 8
Date Sampled		01/08/2023
Type of sample		Soil
Date extracted	-	04/08/2023
Date analysed	-	05/08/2023
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	90

Acid Extractable metals in soil						
Our Reference		329589-1	329589-2	329589-3	329589-4	329589-5
Your Reference	UNITS	TP1_0.0-0.5	SP1	TP2_0.0-0.05	SP2	TP3_0.0-0.5
Sample Location		House 1	House 1	House 2	House 2	House 3
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	2	2	2	<1
Copper	mg/kg	13	8	30	<1	4
Lead	mg/kg	55	19	33	2	23
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	1	6	<1	<1
Zinc	mg/kg	92	34	58	8	48

Acid Extractable metals in soil						
Our Reference		329589-6	329589-7	329589-8	329589-9	329589-10
Your Reference	UNITS	SP3	TP4_0.0-0.5	SP4	TP5_0.0-0.9	TP6_0.0-0.5
Sample Location		House 3	House 4	House 4	Rear Yard 1	West End Driveway
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	1	4	2	2	<1
Copper	mg/kg	2	8	2	13	4
Lead	mg/kg	6	27	13	36	2
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	2	<1	2	<1
Zinc	mg/kg	16	100	29	63	17

Acid Extractable metals in soil						
Our Reference		329589-11	329589-12	329589-13	329589-14	329589-15
Your Reference	UNITS	TP7_0.0-0.5	TP8_0.0-0.5	TP9_0.0-0.5	TP10_0.0-0.5	SP5
Sample Location		Centre Driveway	East End Driveway	Rear Yard 2	House 5	House 5
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	1	<1	41	2	2
Copper	mg/kg	8	1	28	15	8
Lead	mg/kg	26	5	240	49	83
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	<1	4	2	1
Zinc	mg/kg	96	13	130	130	85

Acid Extractable metals in soil						
Our Reference		329589-16	329589-17	329589-18	329589-19	329589-20
Your Reference	UNITS	TP11_0.0-0.5	SP6	TP12_0.0-0.5	SP7	TP13_0.0-0.5
Sample Location		House 6	House 6	House 7	House 7	House 8
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	1	2	3	2	1
Copper	mg/kg	25	3	14	11	8
Lead	mg/kg	16	14	62	18	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	<1	3	<1	1
Zinc	mg/kg	54	12	100	28	30

Acid Extractable metals in soil			
Our Reference		329589-21	329589-22
Your Reference	UNITS	SP8	SP8 - [TRIPLICATE]
Sample Location		House 8	House 8
Date Sampled		01/08/2023	01/08/2023
Type of sample		Soil	Soil
Date prepared	-	04/08/2023	04/08/2023
Date analysed	-	07/08/2023	07/08/2023
Arsenic	mg/kg	4	8
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	2	2
Copper	mg/kg	42	74
Lead	mg/kg	28	24
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	10	15
Zinc	mg/kg	50	61

Moisture						
Our Reference		329589-1	329589-2	329589-3	329589-4	329589-5
Your Reference	UNITS	TP1_0.0-0.5	SP1	TP2_0.0-0.05	SP2	TP3_0.0-0.5
Sample Location		House 1	House 1	House 2	House 2	House 3
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023
Moisture	%	8.2	5.2	6.7	1.8	3.2

Moisture						
Our Reference		329589-6	329589-7	329589-8	329589-9	329589-10
Your Reference	UNITS	SP3	TP4_0.0-0.5	SP4	TP5_0.0-0.9	TP6_0.0-0.5
Sample Location		House 3	House 4	House 4	Rear Yard 1	West End Driveway
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023
Moisture	%	1.7	4.5	2.1	7.8	6.6

Moisture						
Our Reference		329589-11	329589-12	329589-13	329589-14	329589-15
Your Reference	UNITS	TP7_0.0-0.5	TP8_0.0-0.5	TP9_0.0-0.5	TP10_0.0-0.5	SP5
Sample Location		Centre Driveway	East End Driveway	Rear Yard 2	House 5	House 5
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023
Moisture	%	4.5	5.5	6.5	7.6	4.4

Moisture						
Our Reference		329589-16	329589-17	329589-18	329589-19	329589-20
Your Reference	UNITS	TP11_0.0-0.5	SP6	TP12_0.0-0.5	SP7	TP13_0.0-0.5
Sample Location		House 6	House 6	House 7	House 7	House 8
Date Sampled		01/08/2023	01/08/2023	01/08/2023	01/08/2023	01/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2023	04/08/2023	04/08/2023	04/08/2023	04/08/2023
Date analysed	-	07/08/2023	07/08/2023	07/08/2023	07/08/2023	07/08/2023
Moisture	%	8.0	4.0	7.2	7.5	3.4

Moisture		
Our Reference		329589-21
Your Reference	UNITS	SP8
Sample Location		House 8
Date Sampled		01/08/2023
Type of sample		Soil
Date prepared	-	04/08/2023
Date analysed	-	07/08/2023
Moisture	%	8.8

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Client Reference: 29082, 25-27 Boyd St, Tweed Heads

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	329589-2
Date extracted	-			04/08/2023	1	04/08/2023	04/08/2023		04/08/2023	04/08/2023
Date analysed	-			05/08/2023	1	05/08/2023	05/08/2023		05/08/2023	05/08/2023
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	1	<25	<25	0	124	127
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	1	<25	<25	0	124	127
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	117	119
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	117	119
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	119	121
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	133	137
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	133	136
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	92	1	87	89	2	91	85

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			[NT]	11	04/08/2023	04/08/2023		04/08/2023	[NT]
Date analysed	-			[NT]	11	05/08/2023	05/08/2023		05/08/2023	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	11	<25	<25	0	90	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	11	<25	<25	0	90	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	11	<0.2	<0.2	0	83	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	11	<0.5	<0.5	0	86	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	11	<1	<1	0	86	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	11	<2	<2	0	98	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	11	<1	<1	0	97	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	11	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	11	88	92	4	80	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	04/08/2023	04/08/2023		[NT]	[NT]
Date analysed	-			[NT]	21	05/08/2023	05/08/2023		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	21	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	21	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	21	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	21	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	21	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	21	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	21	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	21	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	21	91	93	2	[NT]	[NT]

Client Reference: 29082, 25-27 Boyd St, Tweed Heads

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	329589-2
Date extracted	-			04/08/2023	1	04/08/2023	04/08/2023		04/08/2023	04/08/2023
Date analysed	-			05/08/2023	1	05/08/2023	05/08/2023		05/08/2023	05/08/2023
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	1	<50	<50	0	111	103
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	1	<100	<100	0	114	108
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	1	<100	<100	0	100	100
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	1	<50	<50	0	111	103
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	1	<100	<100	0	114	108
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	1	<100	<100	0	100	100
Surrogate o-Terphenyl	%		Org-020	90	1	90	89	1	86	96

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			[NT]	11	04/08/2023	04/08/2023		04/08/2023	[NT]
Date analysed	-			[NT]	11	05/08/2023	05/08/2023		05/08/2023	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	11	<50	<50	0	113	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	11	<100	<100	0	119	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	11	<100	<100	0	100	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	11	<50	<50	0	113	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	11	<100	<100	0	119	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	11	<100	<100	0	100	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	11	91	92	1	90	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	04/08/2023	04/08/2023		[NT]	[NT]
Date analysed	-			[NT]	21	05/08/2023	05/08/2023		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	21	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	21	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	21	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	21	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	21	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	21	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	21	90	88	2	[NT]	[NT]

Client Reference: 29082, 25-27 Boyd St, Tweed Heads

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	329589-2
Date prepared	-			04/08/2023	1	04/08/2023	04/08/2023		04/08/2023	04/08/2023
Date analysed	-			07/08/2023	1	07/08/2023	07/08/2023		07/08/2023	07/08/2023
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	112	109
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	116	107
Chromium	mg/kg	1	Metals-020	<1	1	2	2	0	125	114
Copper	mg/kg	1	Metals-020	<1	1	13	11	17	117	117
Lead	mg/kg	1	Metals-020	<1	1	55	65	17	123	111
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	113	105
Nickel	mg/kg	1	Metals-020	<1	1	2	1	67	112	105
Zinc	mg/kg	1	Metals-020	<1	1	92	110	18	117	101

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date prepared	-			[NT]	11	04/08/2023	04/08/2023		04/08/2023	[NT]
Date analysed	-			[NT]	11	07/08/2023	07/08/2023		07/08/2023	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	11	<4	<4	0	112	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	11	<0.4	<0.4	0	113	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	11	1	1	0	121	[NT]
Copper	mg/kg	1	Metals-020	[NT]	11	8	5	46	116	[NT]
Lead	mg/kg	1	Metals-020	[NT]	11	26	24	8	122	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	11	<0.1	<0.1	0	114	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	11	<1	<1	0	112	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	11	96	67	36	116	[NT]

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	21	04/08/2023	04/08/2023		[NT]	[NT]
Date analysed	-			[NT]	21	07/08/2023	07/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	21	4	4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	21	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	21	2	2	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	21	42	34	21	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	21	28	14	67	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	21	10	5	67	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	21	50	40	22	[NT]	[NT]

Result Definitions

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

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Acid Extractable Metals in Soil:

- The laboratory RPD acceptance criteria has been exceeded for 329589-21 for Pb and Ni. Therefore a triplicate result has been issued as laboratory sample number 329589-22.