		Client Reference	e: E27556KD, Austra	l					
QUALITYCONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery				
Organophosphorus			Base + Duplicate + % RPD						
Date extracted	-	144438-15	08/04/2016 08/04/2016	144438-3	08/04/2016				
Date analysed	-	144438-15	09/04/2016 09/04/2016	144438-3	09/04/2016				
Azinphos-methyl (Guthion)	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Bromophos-ethyl	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Chlorpyriphos	mg/kg	144438-15	<0.1 <0.1	144438-3	66%				
Chlorpyriphos-methyl	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Diazinon	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Dichlorvos	mg/kg	144438-15	<0.1 <0.1	144438-3	137%				
Dimethoate	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Ethion	mg/kg	144438-15	<0.1 <0.1	144438-3	79%				
Fenitrothion	mg/kg	144438-15	<0.1 <0.1	144438-3	89%				
Malathion	mg/kg	144438-15	<0.1 <0.1	144438-3	#				
Parathion	mg/kg	144438-15	<0.1 <0.1	144438-3	73%				
Ronnel	mg/kg	144438-15	<0.1 <0.1	144438-3	71%				
Surrogate TCMX	%	144438-15	74 79 RPD:7	144438-3	99%				
QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate	Spike Sm#	Spike % Recovery				
PCBs in Soil			Base + Duplicate + %RPD						
Date extracted	-	144438-15	08/04/2016 08/04/2016	144438-3	08/04/2016				
Date analysed	-	144438-15	09/04/2016 09/04/2016	144438-3	09/04/2016				
Aroclor 1016	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Aroclor 1221	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Aroclor 1232	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Aroclor 1242	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Aroclor 1248	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Aroclor 1254	mg/kg	144438-15	<0.1 <0.1	144438-3	94%				
Aroclor 1260	mg/kg	144438-15	<0.1 <0.1	[NR]	[NR]				
Surrogate TCLMX	%	144438-15	74 79 RPD:7	144438-3	99%				
QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate	Spike Sm#	Spike % Recovery				
Acid Extractable metals in			Base + Duplicate + %RPD						
SOII									
Date prepared	-	144438-15	08/04/2016 08/04/2016	144438-3	08/04/2016				
Date analysed	-	144438-15	08/04/2016 08/04/2016	144438-3	08/04/2016				
Arsenic	mg/kg	144438-15	6 5 RPD:18	144438-3	88%				
Cadmium	mg/kg	144438-15	<0.4 <0.4	144438-3	87%				
Chromium	mg/kg	144438-15	10 9 RPD:11	144438-3	90%				
Copper	mg/kg	144438-15	43 39 RPD:10	144438-3	108%				
Lead	mg/kg	144438-15	12 10 RPD:18	144438-3	88%				
Mercury	mg/kg	144438-15	<0.1 <0.1	144438-3 82%					
Nickel	mg/kg	144438-15	8 7 RPD:13	144438-3	88%				
Zinc	mg/kg	144438-15	160 140 RPD:13	144438-3	88%				

		Client Referenc	e: E27556KD, Austra	l	
QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXNin Soil			Base + Duplicate + %RPD		
Date extracted	-	144438-30	08/04/2016 08/04/2016	LCS-4	08/04/2016
Date analysed	-	144438-30	08/04/2016 08/04/2016	LCS-4	08/04/2016
TRHC6 - C9	mg/kg	144438-30	<25 <25	LCS-4	100%
TRHC6 - C10	mg/kg	144438-30	<25 <25	LCS-4	100%
Benzene	mg/kg	144438-30	<0.2 <0.2	LCS-4	100%
Toluene	mg/kg	144438-30	<0.5 <0.5	LCS-4	94%
Ethylbenzene	mg/kg	144438-30	<1 <1	LCS-4	100%
m+p-xylene	mg/kg	144438-30	<2 <2	LCS-4	103%
o-Xylene	mg/kg	144438-30	<1 <1	LCS-4	95%
naphthalene	mg/kg	144438-30	<1 <1	[NR]	[NR]
<i>Surrogate</i> aaa- Trifluorotoluene	%	144438-30	101 98 RPD: 3	LCS-4	94%
QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate		
svTRH (C10-C40) in Soil			Base + Duplicate + %RPD		
Date extracted	-	144438-30	08/04/2016 08/04/2016		
Date analysed	-	144438-30	09/04/2016 09/04/2016		
TRHC 10 - C14	mg/kg	144438-30	<50 <50		
TRHC 15 - C28	mg/kg	144438-30	<100 <100		
TRHC29 - C36	mg/kg	144438-30	<100 <100		
TRH>C10-C16	mg/kg	144438-30	<50 <50		
TRH>C16-C34	mg/kg	144438-30	<100 <100		
TRH>C34-C40	mg/kg	144438-30	<100 <100		
Surrogate o-Terphenyl	%	144438-30	81 82 RPD: 1		
QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil			Base + Duplicate + %RPD		
Date prepared	-	[NT]	[NT]	LCS-8	08/04/2016
Date analysed	-	[NT]	[NT]	LCS-8	08/04/2016
Arsenic	mg/kg	[NT]	[NT]	LCS-8	110%
Cadmium	mg/kg	[NT]	[NT]	LCS-8	103%
Chromium	mg/kg	[NT]	[NT]	LCS-8	110%
Copper	mg/kg	[NT]	[NT]	LCS-8	110%
Lead	mg/kg	[NT]	[NT]	LCS-8	106%
Mercury	mg/kg	[NT]	[NT]	LCS-8	83%
Nickel	mg/kg	[NT]	[NT]	LCS-8	104%
Zinc	mg/kg	[NT]	[NT]	LCS-8	104%

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Lulu Scott
Asbestos ID was authorised by Approved Signatory:	Lulu Scott

INS: Insufficient sample for this test NR: Test not required <: Less than PQL: Practical Quantitation Limit RPD: Relative Percent Difference >: Greater than NT: Not tested NA: Test not required LCS: Laboratory Control Sample

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.

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: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-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.



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 enquiries@envirolabservices.com.au www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	Environmental Investigation Services
Attention	Mitch Delaney

Sample Login Details	
Your Reference	E27556KD, Austral
Envirolab Reference	144438
Date Sample Received	07/04/2016
Date Instructions Received	07/04/2016
Date Results Expected to be Reported	14/04/2016

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	3 materials 28 soils
Turnaround Time Requested	Standard
Temperature on receipt (°C)	15.4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolabservices.com.au	Email: jhurst@envirolabservices.com.au

Sample and Testing Details on following page



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 enquiries@envirolabservices.com.au www.envirolabservices.com.au

Sample Id	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides	PCBs in Soil	Acid Extractable metals in soil	Asbestos ID - soils	Asbestos ID - materials	On Hold
TP51-0-0.3	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP51-0.65-										\checkmark
0.85										
TP52-0-0.3	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP52-0.7-1.0	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
TP52-1.3-1.6	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
TP53-0-0.3	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP53-1.0-1.2	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
TP53-1.5-1.7										\checkmark
TP54-0-0.2	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP54-0.25-0.5										\checkmark
TP55-0-0.3	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP55-0.4-0.6	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
TP56-0-0.3	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP56-0.4-0.6										\checkmark
TP57-0-0.05	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP57-0.05-0.2	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP57-0.3-0.5										\checkmark
TP58-0-0.25	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP58-0.3-0.5	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
TP59-0-0.25	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP59-0.3-0.5										\checkmark
TP60-0-0.3	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
TP50-0.6-0.9	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
TP50-1.2-1.4	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
TP57-0.15									\checkmark	
TP60-0.2									\checkmark	
DUP21	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
DUP22	\checkmark									
TSA1	\checkmark									
SSA1	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
SFA									\checkmark	

<u>TO:</u> ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen				EIS Job Number: Date Res Required Page:	sults	E27556KD STANDARD					FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS R MACQUARIE PARK, NS P: 02-9888 5000 F Attention: Mi					ROAD SW 2113 F: 02-9888 5001 Aitch Delaney		
ocation:	Austra	al		1						Sam	ple Pr T	eservo ests F	ed in l	Esky o ed	n Ice			
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos			-1
6/4/16	1	TPS1	0-0.3	G, A	0	F111				\times		4.1						
	2	TPS1	065-1.8	6	1	S. Kydan	1											
	3	TPSZ	0-0.3	GA	1	Fill				X								
	4	71952	0-7-10	GA		Fill		λ	X	1								
	5	7952	1-3-1.6	G		Sillyda	1		X									
	6	TPSS	0-0.3	GA		GII				\times								
	7	7853	1.0.1.2	GA		S. Hyclan			X						1			
	8	TP53	15-1-7	6		Siltyday								6		-		
	9	TP54	0-0-2	GA		Fill		1		X			EI	VIRO	ÀВ	Chat	12	b Sen Ashle
	10	7054	0-25-05	6		Sellyclan							Jo	No		Ph	(02)	NSW 9910 6
0	11	TPSS	0-0-3	GA		Fill				X			Da	e Rec		1<	14.	43
	12	TPSS	0.4-06	6		Selficlar			X	.88			Tim	Rec	eived	T	412	01
	13	TPSTO	0-0-3	GA		Fill				X			Tem	p: Co	by:	23	40	2
	14	TPSG	0.4-0.6	6		S. Myclan							Cool Secu	ng: Ic	e/lcer	ack		
\$	15	TP57	0-0.05	GA		Fil				X				1.(lactre	roker	Non	e
	16	7957	005.0.2	GA		Fill				X								
	17	7P57	0.3-0.5	6.		Sellachan					1.0							
	18	71958	0.0.25	64		Fill				X								
	19	TP58	0.3-0.5	6		Sillyclan	1		×									
	20	TPST	1-0.25	GA		Fill				×	1			\$	1			
	210	TPSY	03-0.5	6		Sillyday												
	22	7060	0-0.3	61		Figh				X								
	23	7860	0-6-0-9	64		Fill			X	1							1	
V	24	TP60	1-2-1:4	6	V	Silydas			X									
6416	25	TPS7	0.15	A	MA	Matora									×			
Remarks (co	mments	s/detection li	mits required)	:			Sam G - 2 A - 2 P - P	ple Co 50mg Ciplock lastic	ntaine Glass Asbe Bag	ers: s Jar estos l	Bag		. 199				4	1997 - 19
Kelinquished	By:	np		Date:	7/4	16	13	3-4.	0		Rece	Red E	iy: Y			Date:	14	20

TO: ENVIROLAB : 12 ASHLEY S CHATSWOOI P: (02) 9910 F: (02) 9910 Attention: Ai	SERVIC STREET D NSW 6200 6201 leen	ES PTY LTD 2067		EIS JobE27556KDFROM: ENVIRONMENTAL INVESTIGATION SERVICESDate ResultsSTANDARDREAR OF 115 WICKS MACQUARIE PARK, P: 02-9888 5000 Attention:				EIS Job E27556KD FROM: Number: INVESTIGATION Date Results STANDARD REAR OF 115 WICKS Required: MACQUARIE PARK, Page: 2/2 Attention:					ob E27556KD ber: ENVIRONMENTAL INVESTIGATION services Results STANDARD ired: MACQUARIE PARK, NSW 2113 : 2/2 Attention: Mitch Delaney						CKS ROAD K, NSW 2113 F: 02-9888 5001 Mitch Delaney			5
ocation:	Austra	I								Sam	ple Pr	eserve	ed in I	Esky o	on Ice							
Sampler:	MD			1	1							ests F	Requir	ed 								
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	втех	Asbestos							
6416	26	7860	0.2	G , A	NA	Materal									×		- 4					
1	27	OUP21	NA	6	0	Sout			\times													
	Þ	2294	M	6	Ø	Sol			X	Pl	ease	Ser	DA	126	2 to	E	wo	lab				
,28	799	TBZA	NA	6	art	Sor								X								
029	30	1541	NA	6	NA	Sol								X								
30	31	55.42	NA	6		Fill			X													
31	32	SFA	N4	4	NA	Malerat									×							
		2437	22																			
																1						
														Control Inc.								
										(En		b Sen	lica:							
									er	VIROI	ÀB	Chats	12 wood	Ashk	y St 2067							
									Ju	b No	:	Pt	; (02)	9910	5200							
									Da	ite Re	ceive	d:										
									Ti	ne Re	ceive	ed:										
									Te	mp: C	ool/A	mbie	nt									
									Se	curity	: Inta	t/Bro	k ken/N	one								
Remarks (con	nments	/detection lin	nits required)	:			Samp G - 2 A - Z P - PI	ble Co 50mg iplock	ontaine g Glass c Asbe Bag	rs: Jar stos E	Bag											
Relinquished	By:	10 0	p la	Date:	-1.	11	Time	:			Recei	ved B	sy:			Date:	The second					
	/	N. N.			141	16	13	5:40	0			Fle	2			7/4	120	16				



email: sydney@envirolab.com.au envirolab.com.au

Envirolab Services Pty Ltd - Sydney | ABN 37 112 535 645

CERTIFICATE OF ANALYSIS

144438-A

Client: Environmental Investigation Services PO Box 976 North Ryde BC NSW 1670

Attention: Mitch Delaney

Sample log in details:

Your Reference: No. of samples: Date samples received / completed instructions received

E27556KD, Austral 1 soil for additional testing 07/04/16 / 14/04/2016

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: / Issue Date:
 19/04/16
 /
 15/04/16

 Date of Preliminary Report:
 Not Issued

 NATA accreditation number 2901. This document shall not be reproduced except in full.

 Accredited for compliance with ISO/IEC 17025.

 Tests not covered by NATA are denoted with *.

Results Approved By:

Jacinta/Hurst

Laboratory Manager



Metals in TCLP USEPA1311		
Our Reference:	UNITS	144438-A-4
Your Reference		TP52
	-	
Depth		0.7-1.0
Date Sampled		6/04/2016
Type of sample		soil
Date extracted	-	15/04/2016
Date analysed	-	15/04/2016
pH of soil for fluid# determ.	pH units	7.4
pH of soil TCLP (after HCI)	pH units	1.5
Extraction fluid used	-	1
pH of final Leachate	pH units	5.0
Lead in TCLP	mg/L	<0.03

Client Reference: E27556KD, Austral

MethodID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using in house method INORG-004.
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Metals-020 ICP- AES	Determination of various metals by ICP-AES.

Client Reference: E27556KD, Austral								
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals in TCLP USEPA1311						Base II Duplicate II % RPD		
Date extracted	-			15/04/2 016	[NT]	[NT]	LCS-W1	15/04/2016
Date analysed	-			15/04/2 016	[NT]	[NT]	LCS-W1	15/04/2016
Lead in TCLP	mg/L	0.03	Metals-020 ICP-AES	<0.03	[NT]	[NT]	LCS-W1	100%

Report Comments:

Asbestos ID was analysed by Approved Identifier: Asbestos ID was authorised by Approved Signatory: Not applicable for this job Not applicable for this job

INS: Insufficient sample for this test NR: Test not required <: Less than PQL: Practical Quantitation Limit RPD: Relative Percent Difference >: Greater than NT: Not tested NA: Test not required LCS: Laboratory Control Sample

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.

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: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-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.

Aileen Hie

From: Sent: To: Subject: Mitchell Delaney <MDelaney@jkgroup.net.au> Thursday, 14 April 2016 4:28 PM Aileen Hie Additional TCLP analysis 144438

144438-A 3 day TAT Due 19/04

Hi Aileen,

Can I please schedule a TCLP analysis for lead for the sample (TP57 0.7-1.0m) on a 3 day TA.

Many thanks

Regards,

Mitchell Delaney Senior Environmental Scientist MDelaney@jkgroup.net.au

www.jkgroup.net.au



Environmental Investigation Services CONSULTING ENVIRONMENTAL ENGINEERS AND SCIENTISTS PO Box 976, North Ryde BC NSW 1670 115 Wicks Rd, Macquarie Park NSW 2113 T: +612 9888 5000 F: +612 9888 5001

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Sophie Keritz

From: Sent: To: Subject: Mitchell Delaney <MDelaney@jkgroup.net.au> Thursday, 14 April 2016 6:19 PM Sophie Keritz Re: Additional TCLP analysis 144438

Hi Sophie,

Yes sorry TP 52.

Many thanks

Sent from my Samsung Galaxy smartphone.

Regards,

Mitchell Delaney Senior Environmental Scientist <u>MDelaney@jkgroup.net.au</u> www.jkgroup.net.au



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------ Original message ------From: Sophie Keritz <skeritz@envirolab.com.au> Date: 14/04/2016 5:58 pm (GMT+10:00) To: Mitchell Delaney <MDelaney@jkgroup.net.au> Subject: RE: Additional TCLP analysis 144438

Hey Mitch, There is no sample 57 07-1.0 ... did you mean 52?

Regards,

Sophie Keritz | Sample Receipt | Envirolab Services Pty Ltd

Great Chemistry, Great Service.

12 Ashley Street Chatswood NSW 2067 T 612 9910 6200 F 612 9910 6201 skeritz@envirolab.com.au | www.envirolab.com.au



email: lab@mpl.com.au envirolab.com.au

Envirolab Services (WA) Pty Ltd trading as MPL Laboratories | ABN 53 140 099 207

CERTIFICATE OF ANALYSIS 179262

Client: Environmental Investigation Services 115 Wicks Road MACQUARIE PARK NSW 2113

Attention: Mitch Delaney

Sample log in details:

Your Reference:	E27556KD
No. of samples:	1 Soil
Date samples received:	12/04/2016
Date completed instructions received:	12/04/2016
Location:	Austral

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 pages of this report for any comments relating to the results.*

Report Details:

Date results requested by:18/04/16Date of Preliminary Report:Not issuedIssue Date:18/04/16NATA accreditation number 2901. This document shall not be reproduced except in full.Accredited for compliance with ISO/IEC 17025.Tests not covered by NATA are denoted with *.

Results Approved By:

Joshua Lim Operations Manager

MPL Reference: Revision No: 179262 R 00



svTRH(C10-C36) in soil		
Our Reference:	UNITS	179262-1
Your Reference		DUP22
Date Sampled		06/04/2016
Type of sample		Soil
Date extracted	-	13/04/2016
Date analysed	-	14/04/2016
TRHC 10 - C 14	mg/kg	<50
TRHC15 - C28	mg/kg	<100
TRHC29 - C36	mg/kg	<100
TRH>C10 - C16	mg/kg	<50
TRH>C10-C16 less N (F2)	mg/kg	<50
TRH>C16 - C34	mg/kg	<100
TRH>C34 - C40	mg/kg	<100
Surrogate o-Terphenyl	%	96

Client Reference: E2

(
vTRH(C6-C10)/MBTEXN in soil		
Our Reference:	UNITS	179262-1
Your Reference		DUP22
Date Sampled		06/04/2016
Type of sample		Soil
Date extracted	-	13/04/2016
Date analysed	-	14/04/2016
TRHC6 - C9	mg/kg	<25
TRHC6 - C10	mg/kg	<25
TRHC6-C10 less BTEX (F1)	mg/kg	<25
MTBE	mg/kg	<0.5
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
Surrogate aaa-Trifluorotoluene	%	107

Client Reference:

DAL la in Cail		
		470000 4
Our Reference:	UNITS	179262-1
Pote Sampled		DUP22
Date Sampled		00/04/2016 Soil
		301
Date extracted	-	13/04/2016
Date analysed	-	13/04/2016
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Total Positive PAHs	mg/kg	NO+VEPAHS
p-Terphenyl-D14	%	109

Client Reference:

Organochlorine Pesticides in soil		
Our Reference:	UNITS	179262-1
Your Reference		DUP22
Date Sampled		06/04/2016
Type of sample		Soil
Date extracted	-	13/04/2016
Date analysed	-	13/04/2016
Hexachlorobenzene (HCB)	mg/kg	<0.1
a-BHC	mg/kg	<0.1
b-BHC	mg/kg	<0.1
Lindane (g-BHC)	mg/kg	<0.1
d-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
a-Chlordane	mg/kg	<0.1
g-Chlordane	mg/kg	<0.1
a-Endosulphan	mg/kg	<0.1
<i>p,p'</i> -DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
p,p`-DDD	mg/kg	<0.1
b-Endosulphan	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
p,p'-DDT	mg/kg	<0.1
Endrin Ketone	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1

Client Reference: E

Organophosphorus Pesticides		
Our Reference:	UNITS	179262-1
Your Reference		DUP22
Date Sampled		06/04/2016
Type of sample		Soil
Date extracted	-	13/04/2016
Date analysed	-	13/04/2016
Diazinon (Dimpylate)	mg/kg	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion (Maldison)	mg/kg	<0.1
Chlorpyrifos (ethyl)	mg/kg	<0.1
Parathion (ethyl)	mg/kg	<0.1
Ethion	mg/kg	<0.1
Bromophos Ethyl	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Dichlorvos	mg/kg	<0.1
Azinphos Methyl (Guthion)	mg/kg	<0.1
p-Terphenyl-D14	%	109

UNITS	179262-1
	DUP22
	06/04/2016
	Soil
-	13/04/2016
-	13/04/2016
mg/kg	<0.1
	UNITS - mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg

Client Reference: E27

Acid Extractable metals in soil		
Our Reference:	UNITS	179262-1
Your Reference		DUP22
Date Sampled		06/04/2016
Type of sample		Soil
Date digested	-	13/04/2016
Date analysed	-	14/04/2016
Arsenic	mg/kg	9
Cadmium	mg/kg	<0.4
Chromium	mg/kg	27
Copper	mg/kg	26
Lead	mg/kg	28
Mercury	mg/kg	<0.1
Nickel	mg/kg	6
Zinc	mg/kg	60

Moisture		
Our Reference:	UNITS	179262-1
Your Reference		DUP22
Date Sampled		06/04/2016
Type of sample		Soil
Date prepared	-	13/04/2016
Date prepared Date analysed	-	13/04/2016 14/04/2016

MethodID	Methodology Summary
ORG-003	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-016	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-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM draft B1 Guideline on Investigation Levels for Soil and Groundwater.
ORG-012	 For soil results:- 'TEQ PQL' values are assuming all contributing PAHs reported as <pql actually="" and="" approach="" are="" at="" be="" calculation="" can="" conservative="" contribute="" false="" give="" given="" is="" li="" may="" most="" not="" pahs="" positive="" pql.="" present.<="" teq="" teqs="" that="" the="" this="" to=""> 'TEQ zero' values are assuming all contributing PAHs reported as <pql and="" approach="" are="" below="" but="" calculation="" conservative="" contribute="" false="" is="" least="" li="" more="" negative="" pahs="" pql.<="" present="" susceptible="" teq="" teqs="" that="" the="" this="" to="" when="" zero.=""> 'TEQ half PQL' values are assuming all contributing PAHs reported as <pql are="" half="" li="" pql.<="" stipulated="" the=""> 'TEQ half PQL' values are assuming all contributing PAHs reported as <pql are="" half="" li="" pql.<="" stipulated="" the=""> </pql></pql></pql></pql> Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore'' Total +ve PAHs'' is simply a sum of the positive individual PAHs.
ORG-004	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
ORG-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
ORG-008/015	Organophosphorus Pesticides in soil by DCM: Acetone extraction and water by DCM extraction with determination by GC-ECD/GC-MS.
ORG-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
ORG-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
METALS-020	Metals in soil and water by ICP-OES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
INORG-008	Moisture content determined by heating at 105 deg C for a minimum of 12 hours.

Client Reference: E27556KD								
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH(C10-C36) in soil						Base II Duplicate II % RPD		
Date extracted	-			13/04/ 2016	[NT]	[NT]	LCS-1	13/04/2016
Date analysed	-			14/04/ 2016	[NT]	[NT]	LCS-1	14/04/2016
TRHC 10 - C 14	mg/kg	50	ORG-003	<50	[NT]	[NT]	LCS-1	105%
TRHC 15 - C28	mg/kg	100	ORG-003	<100	[NT]	[NT]	LCS-1	119%
TRHC29 - C36	mg/kg	100	ORG-003	<100	[NT]	[NT]	LCS-1	113%
TRH>C10 - C16	mg/kg	50	ORG-003	<50	[NT]	[NT]	LCS-1	115%
TRH>C16 - C34	mg/kg	100	ORG-003	<100	[NT]	[NT]	LCS-1	116%
TRH>C34 - C40	mg/kg	100	ORG-003	<100	[NT]	[NT]	LCS-1	107%
Surrogate o-Terphenyl	%		ORG-003	96	[NT]	[NT]	LCS-1	108%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/MBTEXN in soil						Base II Duplicate II % RPD		iteeovery
Date extracted	-			13/04/ 2016	[NT]	[NT]	LCS-1	13/04/2016
Date analysed	-			14/04/ 2016	[NT]	[NT]	LCS-1	14/04/2016
TRHC6 - C9	mg/kg	25	ORG-016	<25	[NT]	[NT]	LCS-1	96%
TRHC6 - C10	mg/kg	25	ORG-016	<25	[NT]	[NT]	LCS-1	96%
MTBE	mg/kg	0.5	ORG-016	<0.5	[NT]	[NT]	[NR]	[NR]
Benzene	mg/kg	0.2	ORG-016	<0.2	[NT]	[NT]	LCS-1	93%
Toluene	mg/kg	0.5	ORG-016	<0.5	[NT]	[NT]	LCS-1	95%
Ethylbenzene	mg/kg	1	ORG-016	<1	[NT]	[NT]	LCS-1	95%
m+p-xylene	mg/kg	2	ORG-016	~2	[NT]	[NT]	LCS-1	99%
o-xylene	mg/kg	1	ORG-016	<1	[NT]	[NT]	LCS-1	105%
Naphthalene	mg/kg	1	ORG-016	<1	[NT]	[NT]	[NR]	[NR]
<i>Surrogate</i> aaa- Trifluorotoluene	%		ORG-016	107	[NT]	[NT]	LCS-1	110%

		Clie	ent Referen	ce: I	E27556KD			
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II % RPD		
Date extracted	-			13/04/ 2016	[NT]	[NT]	LCS-1	13/04/2016
Date analysed	-			13/04/ 2016	[NT]	[NT]	LCS-1	13/04/2016
Naphthalene	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	LCS-1	93%
Acenaphthylene	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	LCS-1	94%
Phenanthrene	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	LCS-1	88%
Anthracene	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	LCS-1	93%
Pyrene	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	LCS-1	95%
Benzo(a)anthracene	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	ORG-012	<0.1	INT	[NT]	LCS-1	98%
Benzo(b,j+k) fluoranthene	mg/kg	0.2	ORG-012	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	ORG-012	<0.05	[NT]	[NT]	LCS-1	95%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	ORG-012	<0.1	INT	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	ORG-012	<0.1	INT	INT]	[NR]	[NR]
Benzo(a.h.i)pervlene	ma/ka	0.1	ORG-012	<0.1	INTI	INTI	[NR]	[NR]
p-Terphenyl-D14	%	-	ORG-012	103	INTI	[NT]	LCS-1	104%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike	Spike %
							Sm#	Recovery
Organochlorine								
						Base II Duplicate II % RPD		
Pesticides in soil						Base II Duplicate II % RPD		
Pesticides in soil Date extracted	-			13/04/ 2016	[NT]	Base II Duplicate II %RPD [NT]	LCS-1	13/04/2016
Pesticides in soil Date extracted Date analysed	-			13/04/ 2016 13/04/ 2016	[NT] [NT]	Base II Duplicate II %RPD [NT] [NT]	LCS-1 LCS-1	13/04/2016 13/04/2016
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB)	- - mg/kg	0.1	ORG-012	13/04/ 2016 13/04/ 2016 <0.1	[TV] [TV] [TV]	Base II Duplicate II %RPD [NT] [NT] [NT]	LCS-1 LCS-1 [NR]	13/04/2016 13/04/2016 [NR]
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) a-BHC	- - mg/kg mg/kg	0.1	ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1	[TV] [TV] [TV] [TV]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1	13/04/2016 13/04/2016 [NR] 92%
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) a-BHC b-BHC	- - mg/kg mg/kg mg/kg	0.1 0.1 0.1	ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1	[TV] [TV] [TV] [TV] [TJ]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1	13/04/2016 13/04/2016 [NR] 92% 91%
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC b-BHC Lindane (g-BHC)	- - mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 [NR] LCS-1 LCS-1 LCS-1 [NR]	13/04/2016 13/04/2016 [NR] 92% 91% [NR]
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC <i>b</i> -BHC Lindane (g-BHC) <i>d</i> -BHC	- - mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 [NR] LCS-1 LCS-1 [NR] [NR]	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR]
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC b-BHC Lindane (g-BHC) d-BHC Heptachlor	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 [NR] LCS-1 LCS-1 [NR] [NR] LCS-1	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88%
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) a-BHC b-BHC Lindane (g-BHC) d-BHC Heptachlor Aldrin	- - mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1 [NR] LCS-1 LCS-1 LCS-1	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95%
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC b-BHC Lindane (g-BHC) d-BHC Heptachlor Aldrin Heptachlor Epoxide	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[VT] [TV] [VT] [VT] [VT] [VT] [VT] [TT] [VT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1 [NR] LCS-1 LCS-1 LCS-1 LCS-1	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95% 89%
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC <i>b</i> -BHC Lindane (g-BHC) <i>d</i> -BHC Heptachlor Aldrin Heptachlor Epoxide <i>a</i> -Chlordane	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1 [NR] LCS-1 LCS-1 LCS-1 INR]	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95% 89% [NR]
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC <i>b</i> -BHC Lindane (g-BHC) <i>d</i> -BHC Heptachlor Aldrin Heptachlor Epoxide <i>a</i> -Chlordane <i>g</i> -Chlordane	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [TV] [TV] [NT] [TV] [TV] [TV] [TV] [TV] [TV]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1 [NR] LCS-1 LCS-1 LCS-1 [NR] INR] INR]	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95% 89% [NR] [NR] [NR]
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC <i>b</i> -BHC Lindane (g-BHC) <i>d</i> -BHC Heptachlor Aldrin Heptachlor Epoxide <i>a</i> -Chlordane <i>g</i> -Chlordane <i>a</i> -Endosulphan	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1 [NR] LCS-1 LCS-1 LCS-1 [NR] [NR] [NR] [NR] [NR]	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95% 89% [NR] [NR] [NR]
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) a-BHC b-BHC Lindane (g-BHC) d-BHC Heptachlor Aldrin Heptachlor Epoxide a-Chlordane g-Chlordane a-Endosulphan n n'DDE	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1		Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 [NR] LCS-1 [NR] LCS-1 [NR] LCS-1 LCS-1 LCS-1 [NR] [NR] [NR] [NR]	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95% 89% [NR] [NR] [NR] [NR] 94%
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC <i>b</i> -BHC Lindane (g-BHC) <i>d</i> -BHC Heptachlor Aldrin Heptachlor Epoxide <i>a</i> -Chlordane <i>g</i> -Chlordane <i>a</i> -Endosulphan <i>p</i> , <i>p</i> ⁴ DDE Dieldrin	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1 [NR] LCS-1 LCS-1 LCS-1 [NR] [NR] [NR] [NR] LCS-1 [NR]	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95% 89% [NR] [NR] [NR] [NR] [NR] 94% 88%
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC <i>b</i> -BHC Lindane (g-BHC) <i>d</i> -BHC Heptachlor Aldrin Heptachlor Epoxide <i>a</i> -Chlordane <i>g</i> -Chlordane <i>a</i> -Endosulphan <i>p</i> , <i>p</i> ⁴ DDE Dieldrin Endrin	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1 [NR] LCS-1 LCS-1 LCS-1 [NR] [NR] [NR] [NR] LCS-1 LCS-1 LCS-1 LCS-1	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95% 89% [NR] [NR] [NR] [NR] 94% 88% 84%
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) <i>a</i> -BHC <i>b</i> -BHC Lindane (g-BHC) <i>d</i> -BHC Heptachlor Aldrin Heptachlor Epoxide <i>a</i> -Chlordane <i>g</i> -Chlordane <i>a</i> -Endosulphan <i>p</i> , <i>p</i> ¹ DDE Dieldrin Endrin	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1 [NR] [NR] LCS-1 LCS-1 [NR] [NR] [NR] [NR] LCS-1 LCS-1 LCS-1 LCS-1 LCS-1	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95% 89% [NR] [NR] [NR] [NR] 94% 88% 88% 84%
Pesticides in soil Date extracted Date analysed Hexachlorobenzene (HCB) a -BHC b -BHC Lindane (g-BHC) d-BHC Heptachlor Aldrin Heptachlor Epoxide a -Chlordane g -Chlordane a -Endosulphan ρ, ρ^2 -DDE Dieldrin Endrin ρ, ρ^2 -DDD b Endosulshan	- mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012 ORG-012	13/04/ 2016 13/04/ 2016 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	[NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	Base II Duplicate II %RPD [NT] [NT] [NT] [NT] [NT] [NT] [NT] [NT]	LCS-1 LCS-1 [NR] LCS-1 LCS-1 [NR] LCS-1 LCS-1 LCS-1 [NR] [NR] [NR] [NR] LCS-1 LCS-1 LCS-1 LCS-1 LCS-1	13/04/2016 13/04/2016 [NR] 92% 91% [NR] [NR] 88% 95% 89% [NR] [NR] [NR] [NR] 94% 88% 84% 101%

		Cli	ent Reference	ce: E	E27556KD			
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Endrin Aldehyde	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	LCS-1	82%
p,p'-DDT	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	0.1	ORG-012	<0.1	[NT]	[NT]	[NR]	[NR]
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II % RPD		
Date extracted	-			13/04/ 2016	[NT]	[NT]	LCS-1	13/04/2016
Date analysed	-			13/04/ 2016	[NT]	[NT]	LCS-1	13/04/2016
Diazinon (Dimpylate)	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	LCS-1	91%
Ronnel	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	[NR]	[NR]
Fenitrothion	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	LCS-1	84%
Malathion (Maldison)	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos (ethyl)	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	LCS-1	92%
Parathion (ethyl)	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	LCS-1	96%
Bromophos Ethyl	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	[NR]	[NR]
Dimethoate	mg/kg	0.1	ORG- 008/015	<0.1	[NT]	[NT]	[NR]	[NR]
Dichlorvos	mg/kg	0.1	ORG-008	<0.1	[NT]	[NT]	[NR]	[NR]
Azinphos Methyl (Guthion)	mg/kg	0.1	ORG-008	<0.1	[NT]	[NT]	[NR]	[NR]
p-Terphenyl-D14	%		ORG- 008/015	103	[NT]	[NT]	LCS-1	104%

		Clie	ent Referenc	ce: b	27556KD			
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			13/04/ 2016	[NT]	[NT]	LCS-1-1	13/04/2016
Date analysed	-			13/04/ 2016	[NT]	[NT]	LCS-1-1	13/04/2016
Arochlor 1016	mg/kg	0.1	ORG-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	ORG-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	ORG-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	ORG-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	ORG-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	ORG-006	<0.1	[NT]	[NT]	LCS-1-1	114%
Arochlor 1260	mg/kg	0.1	ORG-006	<0.1	[NT]	[NT]	[NR]	[NR]
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			14/04/ 2016	[NT]	[NT]	LCS-1	14/04/2016
Date analysed	-			14/04/ 2016	[NT]	[NT]	LCS-1	14/04/2016
Arsenic	mg/kg	2	METALS- 020	~2	[NT]	[NT]	LCS-1	96%
Cadmium	mg/kg	0.4	METALS- 020	<0.4	[NT]	[NT]	LCS-1	99%
Chromium	mg/kg	1	METALS- 020	<1	[NT]	[NT]	LCS-1	103%
Copper	mg/kg	1	METALS- 020	<1	[NT]	[NT]	LCS-1	103%
Lead	mg/kg	1	METALS- 020	<1	[NT]	[NT]	LCS-1	103%
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	LCS-1	108%
Nickel	mg/kg	1	METALS- 020	<1	[NT]	[NT]	LCS-1	105%
Zinc	mg/kg	1	METALS- 020	<1	[NT]	[NT]	LCS-1	101%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			13/04/ 2016
Date analysed	-			14/04/ 2016
Moisture	%	0.1	INORG-008	<0.10

MPL Reference: 1 Revision No: R

179262 R 00

Report Comments:

Asbestos Signatories:

Asbestos was analysed by Approved Identifier: Airborne fibres were analysed by Approved Counter: Not applicable for this job Not applicable for this job

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

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

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.

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: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-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.





16 - 18 Hayden Court, Myaree, Western Australia 6154 PO Box 4023 Myaree BC, Western Australia 6960 Tel: +61 8 9317 2505 / Fax: +61 8 9317 4163 email: laboratory@mpl.com.au www.mpl.com.au Envirolab Services (WA) Pty Ltd ABN 63 140 099 207

SAMPLE RECEIPT ADVICE

Client Details	
Client	Environmental Investigation Services
Attention	Mitch Delaney

Sample Login Details	
Your Reference	E27556KD
Envirolab Reference	179262
Date Sample Received	12/04/2016
Date Instructions Received	12/04/2016
Date Results Expected to be Reported	18/04/2016

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	1 Soil
Turnaround Time Requested	Standard
Temperature on receipt (°C)	23.5
Cooling Method	Ice Pack
Sampling Date Provided	Yes

Comments

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples

Please direct any queries to:

Joshua Lim	Meredith Conroy Phone: 08 9317 2505 Fax: 08 9317 4163
Phone: 08 9317 2505	Phone: 08 9317 2505
Fax: 08 9317 4163	Fax: 08 9317 4163
Email: jlim@mpl.com.au	Email: mconroy@mpl.com.au

Sample and Testing Details on following page

16 - 18 Hayden Court, Myaree, Western Australia 6154 PO Box 4023 Myaree BC, Western Australia 6960 Tel: +61 8 9317 2505 / Fax: +61 8 9317 4163 email: laboratory@mpl.com.au www.mpl.com.au Envirolab Services (WA) Pty Ltd ABN 53 140 099 207





Sample Id	svTRH(C10-C36) in soil	vTRH(C6- C10)/MBTEXN in soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides	PCBs in Soil	Acid Extractable metals in soil
DUP22	1	1	1	1	1	1	1

<u>IO:</u> ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201		EIS Job E27556KD Number: Date Results STANDARD Required:					EROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001											
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Location:	Austra							110	Line	Sam	ple Pr	eserve ests R	ed in l	Esky o ed	n Ice		3	
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	втех	Asbestos			
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1	77	OUP21	NA	6	0	Sout	100		×									
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	1000			-					-			15.5						
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Appendix C: Site Information and Site History Documents



Appendix C1: Groundwater Bore Records