

The *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* provides protection for items of national significance. The Act requires a separate Commonwealth approval to be obtained where an action is likely to have significant impacts on items of national environmental significance. Items of national environmental significance include, amongst other things, nationally threatened animal and plant species and ecological communities. The Commonwealth Department of the Environment and Water Resources should be contacted for further advice.

General Manager

Per:  _____

End of Certificate

APPENDIX VI

RESULTS TABLE

Project 7773 / DSI Eastern Creek NSW
Soil Results

	NSW DECC Health-based Investigation Levels, HIL D Criteria ^{1,2}	Ecological Screening / Investigation Levels ¹ Commercial and Industrial														
Sample ID	mg/kg	mg/kg	7773-C1	7773-C2	7773-C3	7773-C4	7773-C5	7773-C6	7773-C7	7773-C8	7773-C9	7773-C10	7773-C11	7773-C12	7773-C13	7773-C14
Date of Sampling			7773-BH01-A	7773-BH02-A	7773-BH03-A	7773-BH04-A	7773-BH05-A	7773-BH06-A	7773-BH07-A	7773-BH08-A	7773-BH09-A	7773-BH10-A	7773-BH11-A	7773-BH12-A	7773-BH13-A	7773-BH14-A
Depth(m)			25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014
			0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Inorganics																
Arsenic	3000	1604	10.2	19.5	11.0	14.1	10.3	9.1	11.9	3.8	8.1	8.1	2.4	8.3	2.0	6.5
Cadmium	900.00		0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Chromium (total)	3600		31.2	22.8	18.5	18.0	12.6	25.4	140.1	20.3	23.4	14.4	17.9	14.4	19.8	16.7
Copper	240 000		35.3	13.0	25.6	23.2	71.9	67.3	30.0	14.6	15.2	18.0	14.3	19.2	48.2	9.5
Lead	1 500		36.6	20.7	24.2	28.3	160.3	38.1	27.2	28.1	29.3	31.2	21.5	32.4	23.5	27.4
Mercury	730		0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel	6 000		33.9	12.0	15.7	19.3	10.0	27.9	130.0	18.0	15.2	15.6	10.0	12.0	18.6	10.0
Zinc	400 000		100.0	27.2	48.4	38.6	240.0	55.9	52.9	39.4	36.3	41.9	27.5	36.0	47.0	21.4
TRH																
TRH C6-C10		215	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
TRH C10-C16		170	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH C16-C34		1 700	<100	<100	<100	<100	140	<100	<100	<100	<100	<100	<100	<100	<100	<100
TRH C34-C40		3 300	<100	<100	<100	<100	160	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH																
Benzo(a)pyrene		1.40	<3	<3	<3	<3	0.56	<3	<3	<3	<3	<3	<3	<3	<3	<3
Carcinogenic PAHs (as BaP TEQ) ³	40		<0.73	<0.73	<0.73	<0.73	1.08	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73
Total PAH ³	4 000		<4.8	<4.8	<4.8	<4.8	7.04	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Naphthalene		370	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
OCPs																
Aldrin	45 [†]		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	45 ^{##}		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane	530		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
DDT+DDD+DDE	3 600		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
DDT		640	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Endosulfan	2 000		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Heptachlor	50		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
OPPs																
chlorpyrifos			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
chlorpyrifos methyl			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
diazinon			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
fenchlorphos			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
methyl parathion			<0.1	<0.1	<0.1	<0.1	0.32	0.30	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
prophos			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tributylphosphorotrithioite			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenols																
Phenols	240 000		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pentachlorophenal	660		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cresols	25 000		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
PCBs																
PCBs (total)	7		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes to table:

	Indicates contaminant above HIL D criteria
	Indicates contaminant above Ecological Screening Levels

1 NEPM Schedule B(1) Guideline on the Investigation Levels for Soil and Groundwater, 2013
2 NSW DEC Guidelines for the NSW Site Auditor Scheme, 2006

3 PAHs: HIL is based on the 8 carcinogenic PAHs and their Toxic Equivalency Factor (TEFs) (potency relative to B(a)P). The B(a)P TEQ (Toxic Equivalency Quantity) is calculated by multiplying the concentration of each carcinogenic PAH in the sample by its B(a)P TEF.
The maximum allowable if dieldrin is not present
The maximum allowable if aldrin is not present
Results calculated as average value of sample triplicate
Total concentrations were calculated using the detection limit integer where one or more sample results used in the calculation were below the detection limit for the method.

Project 7773 / DSI Eastern Creek NSW
Soil Results

	NSW DECC Health-based Investigation Levels, HIL D Criteria ^{1,2}	Ecological Screening / Investigation Levels ¹ Commercial and Industrial								
Sample ID	mg/kg	mg/kg	7773-C15	7773-C16	7773-C17	7773-C18	7773-C19	7773-C20	7773-C21	
			7773-BH15-A	7773-BH16-A	7773-SP1-01A	7773-SP1-02A	7773-SP1-03A	7773-SP2-01A	7773-SP2-02A	
Date of Sampling			25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	25.06.2014	
Depth(m)			0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	
Inorganics										
Arsenic	3000	1604	11.3	25.2	4.3	3.9	5.0	3.6	9.2	
Cadmium	900.00		0.30	0.30	0.30	0.30	0.30	0.30	0.30	
Chromium (total)	3600		13.0	21.0	15.9	18.8	36.0	28.7	20.7	
Copper	240 000		14.2	21.0	31.7	86.4	38.3	24.3	14.2	
Lead	1 500		24.8	28.0	29.1	27.6	26.7	21.0	18.5	
Mercury	730		0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Nickel	6 000		10.0	26.8	17.2	20.0	46.4	19.9	13.1	
Zinc	400 000		37.8	39.7	45.0	51.3	61.5	78.4	29.4	
TRH										
TRH C6-C10		215	<35	<35	<35	<35	<35	<35	<35	
TRH C10-C16		170	<50	<50	<50	<50	<50	<50	<50	
TRH C16-C34		1 700	<100	<100	<100	<100	<100	<100	<100	
TRH C34-C40		3 300	<100	<100	<100	<100	<100	<100	<100	
PAH										
Benzo(a)pyrene		1.40	<3	<3	<3	<3	0.44	0.30	<3	
Carcinogenic PAHs (as BaP TEQ) ³	40		<0.73	<0.73	<0.73	<0.73	0.91	<0.73	<0.73	
Total PAH ³	4 000		<4.8	<4.8	<4.8	<4.8	7.29	<4.8	<4.8	
Naphthalene		370	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
OCPs										
Aldrin	45 [†]		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dieldrin	45 ^{##}		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Chlordane	530		<2	<2	<2	<2	<2	<2	<2	
DDT+DDD+DDE	3 600		<3	<3	<3	<3	<3	<3	<3	
DDT		640	<1	<1	<1	<1	<1	<1	<1	
Endosulfan	2 000		<5	<5	<5	<5	<5	<5	<5	
Heptachlor	50		<2	<2	<2	<2	<2	<2	<2	
OPPs										
chlorpyrifos			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
chlorpyrifos methyl			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
diazinon			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
fenchlorphos			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
methyl parathion			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
prophos			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
tributylphosphorothioite			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Phenols										
Phenols	240 000		NT	NT	<0.5	<0.5	<0.5	<0.5	<0.5	
Pentachlorophenal	660		NT	NT	<1	<1	<1	<1	<1	
Cresols	25 000		NT	NT	<1.5	<1.5	<1.5	<1.5	<1.5	
PCBs										
PCBs (total)	7		NT	NT	<0.5	<0.5	<0.5	<0.5	<0.5	

Notes to table:

	Indicates contaminant above HIL D criteria
	Indicates contaminant above Ecological Screening Levels

1 NEPM Schedule B(1) Guideline on the Investigation Levels for Soil and Groundwater, 2013
2 NSW DEC Guidelines for the NSW Site Auditor Scheme, 2006

3 PAHs: HIL is based on the 8 carcinogenic PAHs and their Toxic Equivalency Factor (TEFs) (potency relative to B(a)P). The B(a)P TEQ (Toxic Equivalency Quantity) is calculated by multiplying the concentration of each carcinogenic PAH in the sample by its B(a)P TEF.
The maximum allowable if dieldrin is not present
The maximum allowable if aldrin is not present
Results calculated as average value of sample triplicate
Total concentrations were calculated using the detection limit integer where one or more sample results used in the calculation were below the detection limit for the method.

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Sediment Results

	Interim Sediment Quality Guidelines- Low ¹	Interim Sediment Quality Guidelines- High ¹	Ecological Screening / Investigation Levels ³ Commercial and Industrial				
Sample ID	mg/kg	mg/kg	mg/kg	7773-C22	7773-C23	7773-C24	7773-C25
				SS-01	SS-02	SS-03	SS-04
Date of Sampling				25.06.2014	25.06.2014	25.06.2014	25.06.2014
Texture				Silty loam	Silty loam	Silty loam	Silty loam
Metals							
Arsenic	20.0	70.0		5.37	22.49	9.19	<2
Cadmium	1.5	10.0		<0.3	<0.3	<0.3	<0.3
Chromium (total)	80	370		15.55	36.72	16.97	10.06
Copper	65	270		19.79	19.89	22.62	27.31
Lead	50	220		16.97	30.60	26.87	24.44
Mercury	0.15	1.0		<0.2	<0.2	<0.2	<0.2
Nickel	21	52		19.79	29.07	16.97	15.81
Zinc	200.0	410.0		35.35	53.54	29.70	44.56
TRH							
TRH C6-C10	-	-	215	<35	<35	<35	<35
TRH C10-C16	-	-	170	<50	<50	<50	<50
TRH C16-C34	-	-	1 700	<100	<100	<100	<100
TRH C34-C40	-	-	3 300	<100	<100	<100	<100
PAH							
Napthalene	160	2100		<0.3	<0.3	<0.3	<0.3
Benzo[a]pyrene	430	1600		<0.3	<0.3	<0.3	<0.3
B(a)P TEQ ²	-	-		<0.73	<0.73	<0.73	<0.73
Total PAH	4000	45000		<4.8	<4.8	<4.8	<4.8

Notes to table:	
-	No Investigation Level Assigned
	Indicates contaminant above ISQG Low (trigger level)
	Indicates contaminant above ISQG High

¹ ANZECC Guildelines for Water Quality, 2000

² Carcinogenic PAHs: HIL is based on the 8 carcinogenic PAHs and their Toxic Equivalency Factor (TEFs) (potency relative to B(a)P). The B(a)P TEQ (Toxic Equivalency Quantity) is calculated by multiplying the concentration of each carcinogenic PAH in the sample by its B(a)P TEF.

Total concentrations were calculated using the detection limit integer where one or more sample results used in the calculation were below the detection limit for the method.

³ NEPM Schedule B(1) Guideline on the Investigation Levels for Soil and Groundwater, 2013

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Surface Water Results

	Adjusted ANZECC 95% Species Protection ¹ µg/L				
Sample ID		7773-C22	7773-C23	7773-C24	7773-C25
		SS-01	SS-02	SS-03	SS-04
Date of Sampling		25.06.2014	25.06.2014	25.06.2014	25.06.2014
Matrix		Water	Water	Water	Water
Metals					
Arsenic	13	<1	<1	<1	<1
Cadmium	23.0	0.10	0.10	0.10	0.10
Chromium (total)	8.4 ^{e3}	<1	<1	<1	<1
Copper	12.6 ³	1	2	3	3
Lead	90.8 ³	<1	<1	<1	<1
Mercury	0.06 ^b	<0.1	<0.1	<0.1	<0.1
Nickel	99 ³	1	2	1	2
Zinc	72 ^{c3}	<5	<5	<5	<5
TRH					
TRH C10-C16	600 ²	<50	<50	<50	<50
TRH C16-C34		<100	<100	<100	<100
TRH C34-C40		<100	<100	<100	<100
PAH					
Napthalene	16	<0.1	<0.1	<0.1	<0.1
Anthracene	0.01 ^{a, b}	<0.1	<0.1	<0.1	<0.1
Phenanthrene	0.6 ^{a, b}	<0.1	<0.1	<0.1	<0.1
Fluoranthene	1.0 ^{a, b}	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	0.1 ^{a, b}	<0.1	<0.1	<0.1	<0.1

Notes to table:	
-	No Investigation Level Assigned
	Indicates contaminant above ANZECC Guidelines (trigger level)

¹ Trigger values adopted (level of protection: 95% of species for slightly-moderately disturbed systems), Australian and New Zealand Guidelines for Fresh and Marine Water Quality, Australian and New Zealand Environment and Conservation Council, 2000

a. In the absence of a high reliability concentration, the moderate or low reliability guideline concentration has been adopted.

b. Due to the potential for the chemical to bioaccumulate, a 99% percent protection level has been adopted.

c. Figure may not protect key species from chronic toxicity, ANZECC 2000.

d. As total concentration was reported for the analyte, the most stringent valence threshold was adopted.

e. As total Arsenic is provided in analytical results, the most stringent criteria of As III and As V has been adopted.

² Maximum of 600 µg/l for sum of TRH>C10-C40 (adapted from Netherlands Intervention Values).

³ Adjusted trigger value for ‘Extremely Hard’ water (>400 mg/L CaCo3)

APPENDIX VII

ANALYTICAL REPORTS



Environmental and OH&S Laboratory

A division of A. D. Envirotech Australia Pty Ltd

A.C.N. 093 452 950

Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Analysis report: 7773-3

Customer: A. D. Envirotech Australia Pty. Ltd.
Attention: Thomas Lobsey

Sample Log In Details

Your reference: 7773-3
No. of Samples: 6
Date Received: 27.06.2014
Date completed instructions received: 27.06.2014
Date of analysis: 27.06-04.07.2014

Report Details

Report Date: 04.07.2014
Method number:** ESA-P-ORG3
ESA-P-ORG04
ESA-P-ORG05
ESA-P-ORG08
ESA-P-ORG12

Results Authorised By:

Dr Dominika Wojtalewicz (MRACI CCHEM)
Laboratory Manager/Principal Chemist



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Tests not covered by NATA are denoted with *.

Lab ID	PQL (µg/L)	7773-C33	7773-C34	7773-C35	7773-C36	7773-C37	7773-C38
		Rinsate-01	Rinsate-02	VOC blank 1	VOC spike 1	VOC blank 2	VOC spike 2
PAH							
Acenaphthene	0.1	<0.1	<0.1	NT	NT	NT	NT
Acenaphthylene	0.1	<0.1	<0.1	NT	NT	NT	NT
Anthracene	0.1	<0.1	<0.1	NT	NT	NT	NT
Benzo[a]anthracene	0.1	<0.1	<0.1	NT	NT	NT	NT
Benzo[a]pyrene	0.1	<0.1	<0.1	NT	NT	NT	NT
Benzo[b]fluoranthene	0.1	<0.1	<0.1	NT	NT	NT	NT
Benzo[g,h,i]perylene	0.1	<0.1	<0.1	NT	NT	NT	NT
Benzo[k]fluoranthene	0.1	<0.1	<0.1	NT	NT	NT	NT
Chrysene	0.1	<0.1	<0.1	NT	NT	NT	NT
Dibenzo[a,h]anthracene	0.1	<0.1	<0.1	NT	NT	NT	NT
Fluoranthene	0.1	<0.1	<0.1	NT	NT	NT	NT
Fluorene	0.1	<0.1	<0.1	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	0.1	<0.1	<0.1	NT	NT	NT	NT
Naphthalene	0.1	<0.1	<0.1	NT	NT	NT	NT
Phenanthrene	0.1	<0.1	<0.1	NT	NT	NT	NT
Pyrene	0.1	<0.1	<0.1	NT	NT	NT	NT
p-Terphenyl-d14	surr.	63%	69%	NT	NT	NT	NT
TRH							
>C10-C16	50	<50	<50	NT	NT	NT	NT
>C16-C34	100	<100	<100	NT	NT	NT	NT
>C34-C40	100	<100	<100	NT	NT	NT	NT
BTEX							
Benzene	1	NT	NT	<1	112%	<1	112%
Toluene	1	NT	NT	<1	106%	<1	108%
Ethylbenzene	1	NT	NT	<1	108%	<1	109%
m, p- Xylene(s)	2	NT	NT	<2	108%	<2	108%
o-Xylene	1	NT	NT	<1	111%	<1	110%
Fluorobenzene	surr.	NT	NT	106%	110%	105%	110%

Lab ID	PQL (µg/L)	Batch Blank 1	Batch Blank spike 1	Batch Matrix spike 1	Batch Duplicate 1 Value 1	Batch Duplicate 1 - Value 2	Batch Duplicate 1
PAH							
Acenaphthene	0.1	<0.1	97%	107%	<0.1	<0.1	ACCEPT
Acenaphthylene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Anthracene	0.1	<0.1	97%	100%	<0.1	0.2	ACCEPT
Benzo[a]anthracene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Benzo[a]pyrene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Benzo[b]fluoranthene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Benzo[g,h,i]perylene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Benzo[k]fluoranthene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Chrysene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Dibenzo[a,h]anthracene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Fluoranthene	0.1	<0.1	98%	102%	<0.1	<0.1	ACCEPT
Fluorene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Indeno(1,2,3-cd)pyrene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Naphthalene	0.1	<0.1	104%	106%	<0.1	<0.1	ACCEPT
Phenanthrene	0.1	<0.1	98%	102%	<0.1	0.2	ACCEPT
Pyrene	0.1	<0.1	97%	102%	<0.1	<0.1	ACCEPT
p-Terphenyl-d14	surr.		69%	70%	71%	70%	N/A
TRH							
>C10-C16	50	<50	84%	86%	<50	<50	ACCEPT
>C16-C34	100	<100	NT	NT	<100	<100	ACCEPT
>C34-C40	100	<100	NT	NT	<100	<100	ACCEPT
BTEX							
Benzene	1	<1	103%	104%	<1	<1	ACCEPT
Toluene	1	<1	98%	98%	<1	1.1	ACCEPT
Ethylbenzene	1	<1	98%	99%	<1	<1	ACCEPT
m, p- Xylene(s)	2	<2	101%	99%	<2	<2	ACCEPT
o-Xylene	1	<1	99%	100%	<1	<1	ACCEPT
Fluorobenzene	surr.		103%	104%	98%	106%	N/A

Lab ID	PQL (µg/L)	Duplicate 2 Value 1	Duplicate 2 Value 2	Duplicate 2
PAH				
Acenaphthene	0.1	<0.1	<0.1	ACCEPT
Acenaphthylene	0.1	<0.1	<0.1	ACCEPT
Anthracene	0.1	<0.1	<0.1	ACCEPT
Benzo[a]anthracene	0.1	<0.1	<0.1	ACCEPT
Benzo[a]pyrene	0.1	<0.1	<0.1	ACCEPT
Benzo[b]fluoranthene	0.1	<0.1	<0.1	ACCEPT
Benzo[g,h,i]perylene	0.1	<0.1	<0.1	ACCEPT
Benzo[k]fluoranthene	0.1	<0.1	<0.1	ACCEPT
Chrysene	0.1	<0.1	<0.1	ACCEPT
Dibenzo[a,h]anthracene	0.1	<0.1	<0.1	ACCEPT
Fluoranthene	0.1	<0.1	<0.1	ACCEPT
Fluorene	0.1	<0.1	<0.1	ACCEPT
Indeno(1,2,3-cd)pyrene	0.1	<0.1	<0.1	ACCEPT
Naphthalene	0.1	<0.1	<0.1	ACCEPT
Phenanthrene	0.1	<0.1	<0.1	ACCEPT
Pyrene	0.1	<0.1	<0.1	ACCEPT
p-Terphenyl-d14	surr.	65%	63%	N/A
TRH				
>C10-C16	50	NT	NT	NT
>C16-C34	100	NT	NT	NT
>C34-C40	100	NT	NT	NT
		Batch Duplicate 2 Value 1	Batch Duplicate 2 Value 2	Batch Duplicate 2
BTEX				
Benzene	1	<1	<1	ACCEPT
Toluene	1	<1	<1	ACCEPT
Ethylbenzene	1	<1	<1	ACCEPT
m, p- Xylene(s)	2	<2	<2	ACCEPT
o-Xylene	1	<1	<1	ACCEPT
Fluorobenzene	surr.	116%	106%	N/A

General Comments and Glossary

Samples are analysed on "as received" basis.

Samples were delivered chilled

Samples were preserved in correct manner

Sample containers for volatile analysis were received with minimal headspace

Samples were analysed within holding time

Some samples have been subcontracted

Yes

Yes

Yes

Yes

No

1. All samples are tested in batches of 20.

2. All results for soil samples are reported per gram of dry soil, unless otherwise stated.

3. However surrogate standards are added to samples due to PAH and BTEX analysis and recoveries are calculated, samples' results are not corrected for standards recoveries.

4. Analysis of VOC in water samples are performed on unfiltered waters (as received), spiked with surrogate

5. If heterogenous or insufficient material provided LCS is used as matrix spike for QA/QC purposes.

6. Duplicate sample and matrix spike recoveries may not be prepared on smaller jobs, however, were analysed at a frequency

7. QA/QC samples shown within the report that states the word "BATCH"; Batch Blank, Matrix Spike and Duplicate were prepared on samples from outside of reported job.

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.

Surr. (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.

INS: Insufficient sample for this test

>: Greater than

LCS: Laboratory Control Sample

NT: Not tested

<: Less than

RPD: Relative Percent Difference

NA: Test not required

PQL: Practical Quantitation Limit

Laboratory Acceptance Criteria

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals, 60-140% for organics is acceptable.

Matrix heterogeneity may result in matrix spike analyses falling outside these limits

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

Results <10 times the PQL : No Limit

Results between 10-20 times the PQL : RPD must lie between 0-50%

Results >20 times the PQL : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.



Accreditation No.14664.

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****Methods Number Description:**

ESA-MP-01	Determination of metals by MP-AES
ESA-MP-02	Digestion of soil samples for MP-AES analysis
ESA-MP-03	Preparation of water samples for metals determination by MP-AES
ESA-MP-04	TCLP for inorganic contaminants
ESA-MP-05	Digestion of paint and dust samples for lead content determination
ESA-MP-06	Digestion of air filters
ESA-MP-07	Digestion of swabs for determination of lead content in dust
ESA-P-ORG3	Analysis of TRH and TPH by GC-FID
ESA-P-ORG04	Separatory funnel extraction of PAHs from water matrices including TCLP extracts
ESA-P-ORG05	Separatory funnel extraction of TRH and TPH from water matrices
ESA-P-ORG07	Extraction of BTEX and VTRX from soil matrices
ESA-P-ORG08	Analysis of soil extracts and waters by P&T GCMS
ESA-P-ORG09	Extraction of TRH from solid matrices
ESA-P-ORG11	Extraction of OCP OPP and PAH from soil matrices
ESA-P-ORG12	Analysis of OCP OPP and PAHs by GC-MS

*pH test



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Environmental and OH&S Laboratory

A division of A. D. Envirotech Australia Pty Ltd

A.C.N. 093 452 950

Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Analysis report: 7773-2

Customer: A. D. Envirotech Australia Pty. Ltd.
Attention: Thomas Lobsey

Sample Log In Details

Your reference: 7773-2
No. of Samples: 5
Date Received: 27.06.2014
Date completed instructions received: 27.06.2014
Date of analysis: 27.06-04.07.2014

Report Details

Report Date: 04.07.2014
Method number:** ESA-P-ORG3
ESA-P-ORG04
ESA-P-ORG05
ESA-P-ORG12

Results Authorised By:

Dr Dominika Wojtalewicz (MRACI CCHEM)

Laboratory Manager/Principal Chemist



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025.

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Lab ID	PQL (µg/L)	7773-C28	7773-C29	7773-C30	7773-C31	7773-C32
		SW-01	SW-02	SW-03	SW-04	7773-SW-BR1
PAH						
Acenaphthene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]anthracene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]pyrene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[b]fluoranthene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[g,h,i]perylene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[k]fluoranthene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[a,h]anthracene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-Terphenyl-d14	surr.	71%	74%	73%	72%	72%
TRH						
>C10-C16	50	<50	<50	<50	<50	<50
>C16-C34	100	<100	<100	<100	<100	<100
>C34-C40	100	<100	<100	<100	<100	<100

Lab ID	PQL (µg/L)	Blank 1	Blank spike 1	Matrix spike 1	Duplicate 1 Value 1	Duplicate 1 Value 2	Duplicate 1
PAH							
Acenaphthene	0.1	<0.1	97%	107%	<0.1	<0.1	ACCEPT
Acenaphthylene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Anthracene	0.1	<0.1	97%	100%	<0.1	0.2	ACCEPT
Benzo[a]anthracene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Benzo[a]pyrene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Benzo[b]fluoranthene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Benzo[g,h,i]perylene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Benzo[k]fluoranthene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Chrysene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Dibenzo[a,h]anthracene	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
Fluoranthene	0.1	<0.1	98%	102%	<0.1	<0.1	ACCEPT
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Pyrene	0.1	<0.1	97%	102%	<0.1	<0.1	ACCEPT
p-Terphenyl-d14	surr.		69%	70%	71%	70%	N/A
TRH							
>C10-C16	50	<50	84%	86%	<50	<50	ACCEPT
>C16-C34	100	<100	NT	NT	<100	<100	ACCEPT
>C34-C40	100	<100	NT	NT	<100	<100	ACCEPT

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Samples were delivered chilled

Samples were preserved in correct manner

Sample containers for volatile analysis were received with minimal headspace

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Some samples have been subcontracted

Yes

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ESA-P-ORG09	Extraction of TRH from solid matrices
ESA-P-ORG11	Extraction of OCP OPP and PAH from soil matrices
ESA-P-ORG12	Analysis of OCP OPP and PAHs by GC-MS

*pH test



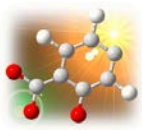
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Environmental and OH&S Laboratory

A division of A. D. Envirotech Australia Pty Ltd

A.C.N. 093 452 950

Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Analysis report: 7773-1

Customer: A. D. Envirotech Australia Pty. Ltd.
Attention: Thomas Lobsey

Sample Log In Details

Your reference: 7773-1
No. of Samples: 27
Date Received: 27.06.2014
Date completed instructions received: 27.06.2014
Date of analysis: 27.06-04.07.2014

Report Details

Report Date: 04.07.2014
Method number:** ESA-MP-01
ESA-MP-02
ESA-P-ORG3
ESA-P-ORG07
ESA-P-ORG08
ESA-P-ORG09
ESA-P-ORG11
ESA-P-ORG12

Results Authorised By:

Dr Dominika Wojtalewicz (MRACI CCHEM)

Laboratory Manager/Principal Chemist



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025.

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Lab ID	PQL (mg/kg)	7773-C1	7773-C2	7773-C3	7773-C4	7773-C5
		7773-BH-01A	7773-BH-02A	7773-BH-03A	7773-BH-04A	7773-BH-05A
Sample Name						
PAH						
Acenaphthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Acenaphthylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[a]anthracene	0.3	<0.3	<0.3	<0.3	<0.3	0.5
Benzo[a]pyrene	0.3	<0.3	<0.3	<0.3	<0.3	0.6
Benzo[b]fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	0.9
Benzo[g,h,i]perylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[k]fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chrysene	0.3	<0.3	<0.3	<0.3	<0.3	0.5
Dibenzo[a,h]anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	0.7
Fluorene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Indeno(1,2,3-cd)pyrene	0.3	<0.3	<0.3	<0.3	<0.3	0.5
Naphthalene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Phenanthrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pyrene	0.3	<0.3	<0.3	<0.3	<0.3	0.7
p-Terphenyl-d14	surr.	89%	87%	85%	86%	85%
OCPs						
aldrin	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
a-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
b-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
d-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
g-BHC (lindane)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-chlordane	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-chlordane	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDD	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDE	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
dieldrin	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endosulfan I	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endosulfan II	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endosulfan sulfate	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endrin	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endrin aldehyde	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endrin ketone	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
heptachlor	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
heptachlor epoxide	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
hexachlorobenzene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
methoxychlor	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TCMX	surr.	105%	106%	104%	108%	109%
OPPs						
chlorpyrifos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
chlorpyrifos methyl	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
diazinon	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
fenchlorphos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
methyl parathion	0.1	<0.1	<0.1	<0.1	<0.1	0.3
prophos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tributylphosphorotrithioite	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Lab ID	PQL (mg/kg)	7773-C1	7773-C2	7773-C3	7773-C4	7773-C5
Sample Name		7773-BH-01A	7773-BH-02A	7773-BH-03A	7773-BH-04A	7773-BH-05A
TRH						
>C6-C10	35	<35	<35	<35	<35	<35
>C10-C16	50	<50	<50	<50	<50	<50
>C16-C34	100	<100	<100	<100	<100	140
>C34-C40	100	<100	<100	<100	<100	160
Metals						
Arsenic	2	10	20	11	14	10
Beryllium	5	NT	NT	NT	NT	NT
Cadmium	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	5	31	23	19	18	13
Cobalt	5	NT	NT	NT	NT	NT
Copper	5	35	13	26	23	72
Lead	10	37	21	24	28	160
Manganese	5	NT	NT	NT	NT	NT
Mercury	0.2	<0.2	<0.2	<0.2	<0.2	0.3
Nickel	10	34	12	16	19	<10
Selenium	2	NT	NT	NT	NT	NT
Zinc	5	100	27	48	39	240
Moisture	%	26%	8%	30%	22%	21%

Lab ID	PQL (mg/kg)	7773-C6	7773-C7	7773-C8	7773-C9	7773-C10
		7773-BH-06A	7773-BH-07A	7773-BH-08A	7773-BH-09A	7773-BH-10A
Sample Name						
PAH						
Acenaphthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Acenaphthylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[a]anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[a]pyrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[b]fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[g,h,i]perylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[k]fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chrysene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dibenzo[a,h]anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluorene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Indeno(1,2,3-cd)pyrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Phenanthrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pyrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
p-Terphenyl-d14	surr.	87%	93%	85%	88%	84%
OCPs						
aldrin	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
a-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
b-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
d-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
g-BHC (lindane)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-chlordane	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-chlordane	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDD	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDE	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
dieldrin	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endosulfan I	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endosulfan II	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endosulfan sulfate	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endrin	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endrin aldehyde	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endrin ketone	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
heptachlor	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
heptachlor epoxide	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
hexachlorobenzene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
methoxychlor	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TCMX	surr.	107%	114%	104%	108%	104%
OPPs						
chlorpyrifos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
chlorpyrifos methyl	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
diazinon	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
fenchlorphos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
methyl parathion	0.1	0.3	<0.1	<0.1	<0.1	<0.1
prophos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tributylphosphorotrithioite	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Lab ID	PQL (mg/kg)	7773-C6	7773-C7	7773-C8	7773-C9	7773-C10
Sample Name		7773-BH-06A	7773-BH-07A	7773-BH-08A	7773-BH-09A	7773-BH-10A
TRH						
>C6-C10	35	<35	<35	<35	<35	<35
>C10-C16	50	<50	<50	<50	<50	<50
>C16-C34	100	<100	<100	<100	<100	<100
>C34-C40	100	<100	<100	<100	<100	<100
Metals						
Arsenic	2	9.1	12	3.8	8.1	8.1
Beryllium	5	NT	NT	NT	NT	NT
Cadmium	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	5	25	140	20	23	14
Cobalt	5	NT	NT	NT	NT	NT
Copper	5	67	30	15	15	18
Lead	10	38	27	28	29	31
Manganese	5	NT	NT	NT	NT	NT
Mercury	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nickel	10	28	130	18	15	16
Selenium	2	NT	NT	NT	NT	NT
Zinc	5	56	53	39	36	42
Moisture	%	21%	30%	11%	15%	17%

Lab ID	PQL (mg/kg)	7773-C11	7773-C12	7773-C13	7773-C14	7773-C15
		7773-BH-11A	7773-BH-12A	7773-BH-13A	7773-BH-14A	7773-BH-15A
Sample Name						
PAH						
Acenaphthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Acenaphthylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[a]anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[a]pyrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[b]fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[g,h,i]perylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[k]fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chrysene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dibenzo[a,h]anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluorene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Indeno(1,2,3-cd)pyrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Phenanthrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pyrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
p-Terphenyl-d14	surr.	92%	84%	84%	91%	86%
OCPs						
aldrin	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
a-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
b-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
d-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
g-BHC (lindane)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-chlordane	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-chlordane	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDD	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDE	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
dieldrin	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endosulfan I	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endosulfan II	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endosulfan sulfate	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endrin	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endrin aldehyde	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endrin ketone	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
heptachlor	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
heptachlor epoxide	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
hexachlorobenzene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
methoxychlor	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TCMX	surr.	112%	102%	104%	112%	105%
OPPs						
chlorpyrifos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
chlorpyrifos methyl	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
diazinon	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
fenchlorphos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
methyl parathion	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
prophos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tributylphosphorotrithioite	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Lab ID	PQL (mg/kg)	7773-C11	7773-C12	7773-C13	7773-C14	7773-C15
Sample Name		7773-BH-11A	7773-BH-12A	7773-BH-13A	7773-BH-14A	7773-BH-15A
TRH						
>C6-C10	35	<35	<35	<35	<35	<35
>C10-C16	50	<50	<50	<50	<50	<50
>C16-C34	100	<100	<100	<100	<100	<100
>C34-C40	100	<100	<100	<100	<100	<100
Metals						
Arsenic	2	2.4	8.3	<2	6.5	11
Beryllium	5	NT	NT	NT	NT	NT
Cadmium	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	5	18	14	20	17	13
Cobalt	5	NT	NT	NT	NT	NT
Copper	5	14	19	48	10	14
Lead	10	21	32	23	27	25
Manganese	5	NT	NT	NT	NT	NT
Mercury	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nickel	10	<10	12	19	<10	<10
Selenium	2	NT	NT	NT	NT	NT
Zinc	5	27	36	47	21	38
Moisture	%	16%	17%	19%	16%	15%

Lab ID	PQL (mg/kg)	7773-C16	7773-C17	7773-C18	7773-C19	7773-C20	7773-C21
		7773-BH-16A	SP1-01A	SP1-02A	SP1-03A	SP2-01A	SP2-02A
Sample Name							
PAH							
Acenaphthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Acenaphthylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Anthracene	0.3	<0.3	<0.3	<0.3	0.5	<0.3	<0.3
Benzo[a]anthracene	0.3	<0.3	<0.3	<0.3	0.5	<0.3	<0.3
Benzo[a]pyrene	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3
Benzo[b]fluoranthene	0.3	<0.3	<0.3	<0.3	0.5	<0.3	<0.3
Benzo[g,h,i]perylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[k]fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chrysene	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3
Dibenzo[a,h]anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	0.3	<0.3	<0.3	<0.3	1.2	<0.3	<0.3
Fluorene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Indeno(1,2,3-cd)pyrene	0.3	<0.3	<0.3	<0.3	0.3	<0.3	<0.3
Naphthalene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Phenanthrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pyrene	0.3	<0.3	<0.3	<0.3	1.0	<0.3	<0.3
p-Terphenyl-d14	surr.	85%	89%	85%	81%	86%	68%
OCPs							
aldrin	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
a-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
b-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
d-BHC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
g-BHC (lindane)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-chlordane	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-chlordane	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDD	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDE	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
dieldrin	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endosulfan I	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endosulfan II	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endosulfan sulfate	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endrin	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
endrin aldehyde	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
endrin ketone	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
heptachlor	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
heptachlor epoxide	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
hexachlorobenzene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
methoxychlor	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TCMX	surr.	104%	109%	105%	101%	106%	96%
OPPs							
chlorpyrifos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
chlorpyrifos methyl	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
diazinon	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
fenchlorphos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
methyl parathion	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
prophos	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tributylphosphorotrithioite	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Lab ID	PQL (mg/kg)	7773-C16	7773-C17	7773-C18	7773-C19	7773-C20	7773-C21
Sample Name		7773-BH-16A	SP1-01A	SP1-02A	SP1-03A	SP2-01A	SP2-02A
TRH							
>C6-C10	35	<35	<35	<35	<35	<35	<35
>C10-C16	50	<50	<50	<50	<50	<50	<50
>C16-C34	100	<100	<100	<100	<100	<100	<100
>C34-C40	100	<100	<100	<100	<100	<100	<100
Metals							
Arsenic	2	25	4.3	3.9	5.0	3.6	9.2
Beryllium	5	NT	NT	NT	NT	NT	NT
Cadmium	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	5	21	16	19	36	29	21
Cobalt	5	NT	NT	NT	NT	NT	NT
Copper	5	21	32	86	38	24	14
Lead	10	28	29	28	27	21	19
Manganese	5	NT	NT	NT	NT	NT	NT
Mercury	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nickel	10	27	17	20	46	20	13
Selenium	2	NT	NT	NT	NT	NT	NT
Zinc	5	40	45	51	61	78	29
Moisture	%	14%	24%	20%	14%	9%	8%

Lab ID	PQL (mg/kg)	7773-C22	7773-C23	7773-C24	7773-C25	7773-C26	7773-C27
		SS-01	SS-02	SS-03	SS-04	7773-BR1	7773-BR2
Sample Name							
PAH							
Acenaphthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Acenaphthylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[a]anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[a]pyrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[b]fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[g,h,i]perylene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Benzo[k]fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chrysene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Dibenzo[a,h]anthracene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluoranthene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Fluorene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Indeno(1,2,3-cd)pyrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Naphthalene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Phenanthrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Pyrene	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
p-Terphenyl-d14	surr.	69%	68%	66%	68%	67%	68%
OCPs							
aldrin	0.1	NT	NT	NT	NT	<0.1	<0.1
a-BHC	0.1	NT	NT	NT	NT	<0.1	<0.1
b-BHC	0.1	NT	NT	NT	NT	<0.1	<0.1
d-BHC	0.1	NT	NT	NT	NT	<0.1	<0.1
g-BHC (lindane)	0.1	NT	NT	NT	NT	<0.1	<0.1
cis-chlordane	0.1	NT	NT	NT	NT	<0.1	<0.1
trans-chlordane	0.1	NT	NT	NT	NT	<0.1	<0.1
4,4'-DDD	0.1	NT	NT	NT	NT	<0.1	<0.1
4,4'-DDE	0.1	NT	NT	NT	NT	<0.1	<0.1
4,4'-DDT	0.1	NT	NT	NT	NT	<0.1	<0.1
dieldrin	0.1	NT	NT	NT	NT	<0.1	<0.1
endosulfan I	0.2	NT	NT	NT	NT	<0.2	<0.2
endosulfan II	0.2	NT	NT	NT	NT	<0.2	<0.2
endosulfan sulfate	0.1	NT	NT	NT	NT	<0.1	<0.1
endrin	0.2	NT	NT	NT	NT	<0.2	<0.2
endrin aldehyde	0.1	NT	NT	NT	NT	<0.1	<0.1
endrin ketone	0.1	NT	NT	NT	NT	<0.1	<0.1
heptachlor	0.1	NT	NT	NT	NT	<0.1	<0.1
heptachlor epoxide	0.1	NT	NT	NT	NT	<0.1	<0.1
hexachlorobenzene	0.1	NT	NT	NT	NT	<0.1	<0.1
methoxychlor	0.1	NT	NT	NT	NT	<0.1	<0.1
TCMX	surr.	NT	NT	NT	NT	95%	96%
OPPs							
chlorpyrifos	0.1	NT	NT	NT	NT	<0.1	<0.1
chlorpyrifos methyl	0.1	NT	NT	NT	NT	<0.1	<0.1
diazinon	0.1	NT	NT	NT	NT	<0.1	<0.1
fenchlorphos	0.1	NT	NT	NT	NT	<0.1	<0.1
methyl parathion	0.1	NT	NT	NT	NT	<0.1	<0.1
prophos	0.1	NT	NT	NT	NT	<0.1	<0.1
tributylphosphorotrithioite	0.1	NT	NT	NT	NT	<0.1	<0.1

Lab ID	PQL (mg/kg)	7773-C22	7773-C23	7773-C24	7773-C25	7773-C26	7773-C27
Sample Name		SS-01	SS-02	SS-03	SS-04	7773-BR1	7773-BR2
TRH							
>C6-C10	35	<35	<35	<35	<35	<35	<35
>C10-C16	50	<50	<50	<50	<50	<50	<50
>C16-C34	100	<100	<100	<100	<100	<100	<100
>C34-C40	100	<100	<100	<100	<100	<100	<100
Metals							
Arsenic	2	5.4	22	9.2	<2	7.4	9.7
Beryllium	5	NT	NT	NT	NT	NT	NT
Cadmium	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	5	16	37	17	10	30	31
Cobalt	5	NT	NT	NT	NT	NT	NT
Copper	5	20	20	23	27	16	21
Lead	10	17	31	27	24	38	26
Manganese	5	NT	NT	NT	NT	NT	NT
Mercury	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nickel	10	20	29	17	16	25	32
Selenium	2	NT	NT	NT	NT	NT	NT
Zinc	5	35	54	30	45	47	39
Moisture	%	29%	35%	29%	30%	11%	15%

Lab ID	PQL (mg/kg)	Blank 1	Blank spike 1	Matrix spike 1	Duplicate 1- Value 1	Duplicate 1- Value 2	Duplicate 1
Sample Name							
PAH							
Acenaphthene	0.3	<0.3	106%	108%	<0.3	<0.3	ACCEPT
Acenaphthylene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Anthracene	0.3	<0.3	108%	110%	<0.3	<0.3	ACCEPT
Benzo[a]anthracene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Benzo[a]pyrene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Benzo[b]fluoranthene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Benzo[g,h,i]perylene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Benzo[k]fluoranthene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Chrysene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Dibenzo[a,h]anthracene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Fluoranthene	0.3	<0.3	112%	113%	<0.3	<0.3	ACCEPT
Fluorene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Indeno(1,2,3-cd)pyrene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Naphthalene	0.3	<0.3	108%	110%	<0.3	<0.3	ACCEPT
Phenanthrene	0.3	<0.3	110%	112%	<0.3	<0.3	ACCEPT
Pyrene	0.3	<0.3	107%	108%	<0.3	<0.3	ACCEPT
p-Terphenyl-d14	surr.	<0.3	84%	86%	87%	90%	N/A
OCPs							
aldrin	0.1	<0.1	119%	121%	<0.1	0.1	ACCEPT
a-BHC	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
b-BHC	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
d-BHC	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
g-BHC (lindane)	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
cis-chlordane	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
trans-chlordane	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
4,4'-DDD	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
4,4'-DDE	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
4,4'-DDT	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
dieldrin	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
endosulfan I	0.2	<0.2	NT	NT	<0.2	<0.2	ACCEPT
endosulfan II	0.2	<0.2	NT	NT	<0.2	<0.2	ACCEPT
endosulfan sulfate	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
endrin	0.2	<0.2	92%	105%	<0.2	<0.2	ACCEPT
endrin aldehyde	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
endrin ketone	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
heptachlor	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
heptachlor epoxide	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
hexachlorobenzene	0.1	<0.1	108%	110%	<0.1	<0.1	ACCEPT
methoxychlor	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
TCMX	surr.	<0.1	101%	102%	106%	105%	N/A
OPPs							
chlorpyrifos	0.1	<0.1	108%	108%	<0.1	<0.1	ACCEPT
chlorpyrifos methyl	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
diazinon	0.1	<0.1	100%	103%	<0.1	<0.1	ACCEPT
fenchlorphos	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
methyl parathion	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
prophos	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
tributylphosphorotrithioite	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT

Lab ID	PQL (mg/kg)	Blank 1	Blank spike 1	Matrix spike 1	Duplicate 1- Value 1	Duplicate 1- Value 2	Duplicate 1
Sample Name							
TRH							
>C6-C10	35	<35	NT	NT	<35	<35	ACCEPT
>C10-C16	50	<50	106%	109%	<50	<50	ACCEPT
>C16-C34	100	<100	NT	NT	<100	<100	ACCEPT
>C34-C40	100	<100	NT	NT	<100	<100	ACCEPT
Metals							
Arsenic	2	<2	100%	96%	20	16	ACCEPT
Beryllium	5	NT	NT	NT	NT	NT	NT
Cadmium	0.3	<0.3	103%	103%	<0.3	<0.3	ACCEPT
Chromium	5	<5	100%	103%	23	15	ACCEPT
Cobalt	5	NT	NT	NT	NT	NT	NT
Copper	5	<5	98%	109%	13	11	ACCEPT
Lead	10	<10	105%	104%	21	15	ACCEPT
Manganese	5	NT	NT	NT	NT	NT	NT
Mercury	0.2	<0.2	96%	97%	<0.2	<0.2	ACCEPT
Nickel	10	<10	99%	119%	12	<10	ACCEPT
Selenium	2	NT	NT	NT	NT	NT	NT
Zinc	5	<5	94%	90%	27	21	ACCEPT
Moisture	%						

Lab ID	PQL (mg/kg)	Duplicate 2- Value 1	Duplicate 2- Value 2	Duplicate 2
Sample Name				
PAH				
Acenaphthene	0.3	<0.3	<0.3	ACCEPT
Acenaphthylene	0.3	<0.3	<0.3	ACCEPT
Anthracene	0.3	<0.3	<0.3	ACCEPT
Benzo[a]anthracene	0.3	<0.3	<0.3	ACCEPT
Benzo[a]pyrene	0.3	<0.3	<0.3	ACCEPT
Benzo[b]fluoranthene	0.3	<0.3	<0.3	ACCEPT
Benzo[g,h,i]perylene	0.3	<0.3	<0.3	ACCEPT
Benzo[k]fluoranthene	0.3	<0.3	<0.3	ACCEPT
Chrysene	0.3	<0.3	<0.3	ACCEPT
Dibenzo[a,h]anthracene	0.3	<0.3	<0.3	ACCEPT
Fluoranthene	0.3	<0.3	<0.3	ACCEPT
Fluorene	0.3	<0.3	<0.3	ACCEPT
Indeno(1,2,3-cd)pyrene	0.3	<0.3	<0.3	ACCEPT
Naphthalene	0.3	<0.3	<0.3	ACCEPT
Phenanthrene	0.3	<0.3	<0.3	ACCEPT
Pyrene	0.3	<0.3	<0.3	ACCEPT
p-Terphenyl-d14	surr.	86%	92%	N/A
OCPs				
aldrin	0.1	<0.1	<0.1	ACCEPT
a-BHC	0.1	<0.1	<0.1	ACCEPT
b-BHC	0.1	<0.1	<0.1	ACCEPT
d-BHC	0.1	<0.1	<0.1	ACCEPT
g-BHC (lindane)	0.1	<0.1	<0.1	ACCEPT
cis-chlordane	0.1	<0.1	<0.1	ACCEPT
trans-chlordane	0.1	<0.1	<0.1	ACCEPT
4,4'-DDD	0.1	<0.1	<0.1	ACCEPT
4,4'-DDE	0.1	<0.1	<0.1	ACCEPT
4,4'-DDT	0.1	<0.1	<0.1	ACCEPT
dieldrin	0.1	<0.1	<0.1	ACCEPT
endosulfan I	0.2	<0.2	<0.2	ACCEPT
endosulfan II	0.2	<0.2	<0.2	ACCEPT
endosulfan sulfate	0.1	<0.1	<0.1	ACCEPT
endrin	0.2	<0.2	<0.2	ACCEPT
endrin aldehyde	0.1	<0.1	<0.1	ACCEPT
endrin ketone	0.1	<0.1	<0.1	ACCEPT
heptachlor	0.1	<0.1	<0.1	ACCEPT
heptachlor epoxide	0.1	<0.1	<0.1	ACCEPT
hexachlorobenzene	0.1	<0.1	<0.1	ACCEPT
methoxychlor	0.1	<0.1	<0.1	ACCEPT
TCMX	surr.	107%	112%	N/A
OPPs				
chlorpyrifos	0.1	<0.1	<0.1	ACCEPT
chlorpyrifos methyl	0.1	<0.1	<0.1	ACCEPT
diazinon	0.1	<0.1	<0.1	ACCEPT
fenchlorphos	0.1	<0.1	<0.1	ACCEPT
methyl parathion	0.1	<0.1	<0.1	ACCEPT
prophos	0.1	<0.1	<0.1	ACCEPT
tributylphosphorotrithioite	0.1	<0.1	<0.1	ACCEPT

Lab ID	PQL (mg/kg)	Duplicate 2- Value 1	Duplicate 2- Value 2	Duplicate 2
Sample Name				
TRH				
>C6-C10	35	<35	<35	ACCEPT
>C10-C16	50	<50	<50	ACCEPT
>C16-C34	100	<100	<100	ACCEPT
>C34-C40	100	<100	<100	ACCEPT
Metals				
Arsenic	2	2.4	4.5	ACCEPT
Beryllium	5	NT	NT	NT
Cadmium	0.3	<0.3	<0.3	ACCEPT
Chromium	5	18	19	ACCEPT
Cobalt	5	NT	NT	NT
Copper	5	14	13	ACCEPT
Lead	10	21	21	ACCEPT
Manganese	5	NT	NT	NT
Mercury	0.2	<0.2	<0.2	ACCEPT
Nickel	10	<10	<10	ACCEPT
Selenium	2	NT	NT	NT
Zinc	5	27	27	ACCEPT
Moisture	%			

Lab ID	PQL (mg/kg)	Blank 2	Blank spike 2	Matrix spike 2	Duplicate 3 - Value 1	Duplicate 3- Value 2	Duplicate 3
Sample Name							
PAH							
Acenaphthene	0.3	<0.3	82%	82%	<0.3	<0.3	ACCEPT
Acenaphthylene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Anthracene	0.3	<0.3	84%	84%	<0.3	<0.3	ACCEPT
Benzo[a]anthracene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Benzo[a]pyrene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Benzo[b]fluoranthene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Benzo[g,h,i]perylene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Benzo[k]fluoranthene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Chrysene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Dibenzo[a,h]anthracene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Fluoranthene	0.3	<0.3	86%	87%	<0.3	<0.3	ACCEPT
Fluorene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Indeno(1,2,3-cd)pyrene	0.3	<0.3	NT	NT	<0.3	<0.3	ACCEPT
Naphthalene	0.3	<0.3	82%	82%	<0.3	<0.3	ACCEPT
Phenanthrene	0.3	<0.3	85%	84%	<0.3	<0.3	ACCEPT
Pyrene	0.3	<0.3	83%	83%	<0.3	<0.3	ACCEPT
p-Terphenyl-d14	surr.	<0.3	61%	61%	69%	72%	N/A
OCPs							
aldrin	0.1	<0.1	93%	91%	<0.1	<0.1	ACCEPT
a-BHC	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
b-BHC	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
d-BHC	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
g-BHC (lindane)	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
cis-chlordane	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
trans-chlordane	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
4,4'-DDD	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
4,4'-DDE	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
4,4'-DDT	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
dieldrin	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
endosulfan I	0.2	<0.2	NT	NT	<0.2	<0.2	ACCEPT
endosulfan II	0.2	<0.2	NT	NT	<0.2	<0.2	ACCEPT
endosulfan sulfate	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
endrin	0.2	<0.2	76%	73%	<0.2	<0.2	ACCEPT
endrin aldehyde	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
endrin ketone	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
heptachlor	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
heptachlor epoxide	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
hexachlorobenzene	0.1	<0.1	75%	68%	<0.1	<0.1	ACCEPT
methoxychlor	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
TCMX	surr.	<0.1	80%	79%	92%	98%	N/A
OPPs							
chlorpyrifos	0.1	<0.1	89%	90%	<0.1	<0.1	ACCEPT
chlorpyrifos methyl	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
diazinon	0.1	<0.1	83%	83%	<0.1	<0.1	ACCEPT
fenchlorphos	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
methyl parathion	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
prophos	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT
tributylphosphorotrithioite	0.1	<0.1	NT	NT	<0.1	<0.1	ACCEPT

Lab ID	PQL (mg/kg)	Blank 2	Blank spike 2	Matrix spike 2	Duplicate 3 - Value 1	Duplicate 3- Value 2	Duplicate 3
Sample Name							
TRH							
>C6-C10	35	<35	NT	NT	<35	<35	ACCEPT
>C10-C16	50	<50	115%	117%	<50	<50	ACCEPT
>C16-C34	100	<100	NT	NT	<100	<100	ACCEPT
>C34-C40	100	<100	NT	NT	<100	<100	ACCEPT
Metals							
Arsenic	2	<2	94%	100%	5.4	11	ACCEPT
Beryllium	5	NT	NT	NT	NT	NT	NT
Cadmium	0.3	<0.3	105%	103%	<0.3	<0.3	ACCEPT
Chromium	5	<5	101%	123%	16	40	ACCEPT
Cobalt	5	NT	NT	NT	NT	NT	NT
Copper	5	<5	100%	110%	20	25	ACCEPT
Lead	10	<10	103%	121%	17	23	ACCEPT
Manganese	5	NT	NT	NT	NT	NT	NT
Mercury	0.2	<0.2	101%	96%	<0.2	<0.2	ACCEPT
Nickel	10	<10	101%	119%	20	34	ACCEPT
Selenium	2	NT	NT	NT	NT	NT	NT
Zinc	5	<5	95%	101%	35	51	ACCEPT
Moisture	%						

General Comments and Glossary

Samples are analysed on "as received" basis.

Samples were delivered chilled

Samples were preserved in correct manner

Sample containers for volatile analysis were received with minimal headspace

Samples were analysed within holding time

Some samples have been subcontracted

Yes

Yes

Yes

Yes

No

1. All samples are tested in batches of 20.

2. All results for soil samples are reported per gram of dry soil, unless otherwise stated.

3. However surrogate standards are added to samples due to PAH and BTEX analysis and recoveries are calculated, samples' results are not corrected for standards recoveries.

4. Analysis of VOC in water samples are performed on unfiltered waters (as received), spiked with surrogate

5. If heterogenous or insufficient material provided LCS is used as matrix spike for QA/QC purposes.

6. Duplicate sample and matrix spike recoveries may not be prepared on smaller jobs, however, were analysed at a frequency

7. QA/QC samples shown within the report that states the word "BATCH"; Batch Blank, Matrix Spike and Duplicate were prepared on samples from outside of reported job.

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.

Surr. (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.

INS: Insufficient sample for this test

>: Greater than

LCS: Laboratory Control Sample

NT: Not tested

<: Less than

RPD: Relative Percent Difference

NA: Test not required

PQL: Practical Quantitation Limit

Laboratory Acceptance Criteria

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals, 60-140% for organics is acceptable.

Matrix heterogeneity may result in matrix spike analyses falling outside these limits

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

Results <10 times the PQL : No Limit

Results between 10-20 times the PQL : RPD must lie between 0-50%

Results >20 times the PQL : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

****Methods Number Description:**

ESA-MP-01	Determination of metals by MP-AES
ESA-MP-02	Digestion of soil samples for MP-AES analysis
ESA-MP-03	Preparation of water samples for metals determination by MP-AES
ESA-MP-04	TCLP for inorganic contaminants
ESA-MP-05	Digestion of paint and dust samples for lead content determination
ESA-MP-06	Digestion of air filters
ESA-MP-07	Digestion of swabs for determination of lead content in dust
ESA-P-ORG02	Analysis of PAHs by GC-MS
ESA-P-ORG03	Analysis of TRH and TPH by GC-FID
ESA-P-ORG04	Separatory funnel extraction of PAHs from water matrices including TCLP extracts
ESA-P-ORG05	Separatory funnel extraction of TRH and TPH from water matrices
ESA-P-ORG06	Silica gel clean up of soil and water extracts, prior analysis for STPH
ESA-P-ORG07	Extraction of BTEX and VTRX from soil matrices
ESA-P-ORG08	Analysis of soil extracts and waters by P&T GCMS
ESA-P-ORG09	Extraction of TRH from solid matrices
ESA-P-ORG11	Extraction of OCP OPP and PAH from soil matrices
ESA-P-ORG12	Analysis of OCP OPP and PAHs by GC-MS
AS 1289.4.3.1	Determination of the pH value of a soil-Electrometric method
AS 1289.3.6.1	Determination of the particle size distribution of a soil - Standard method of analysis by sieving
T276	NSW RMS Test Method T 276 Foreign materials content of recycled crushed concrete

*Texture Assessment based on; Salinity Notes, Number 8, Oct 2000, ISSN 1 325-4448, "How to Texture soils & Test for Salinity"

*ElectroConductivity testing with Aqua CPA Conduct./pH meter

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Environmental and OH&S Laboratory

A division of A. D. Envirotech Australia Pty Ltd

A.C.N. 093 452 950

Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Analysis report: 7773-4

Customer: A. D. Envirotech Australia Pty. Ltd.
Attention: Evan Webb

Sample Log In Details

Your reference: 7773-4
No. of Samples: 4
Date Received: 21.07.2014
Date completed instructions received: 21.07.2014
Date of analysis: 21.07.2014

Report Details

Report Date: 21.07.2014
Method number:** *pH test
*ElectroConductivity testing with Aqua CPA Conduct./pH meter

Results Authorised By:

Dr Dominika Wojtalewicz (MRACI CCHEM)
Laboratory Manager/Principal Chemist



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Tests not covered by NATA are denoted with *.

Lab ID	PQL (µg/L)	7773-C39	7773-C40	7773-C41	7773-C42
		7773-SW-01A	7773-SW-01B	7773-SW-02A	7773-SW-02B
pH		7.98	7.21	7.48	7.50
EC	[dS/m]	2.67	4.84	2.60	2.69

General Comments and Glossary

Samples are analysed on "as received" basis.

Samples were delivered chilled

Samples were preserved in correct manner

Sample containers for volatile analysis were received with minimal headspace

Samples were analysed within holding time

Some samples have been subcontracted

Yes

Yes

Yes

Yes

No

1. All samples are tested in batches of 20.

2. All results for soil samples are reported per gram of dry soil, unless otherwise stated.

3. However surrogate standards are added to samples due to PAH and BTEX analysis and recoveries are calculated, samples' results are not corrected for standards recoveries.

4. Analysis of VOC in water samples are performed on unfiltered waters (as received), spiked with surrogate

5. If heterogenous or insufficient material provided LCS is used as matrix spike for QA/QC purposes.

6. Duplicate sample and matrix spike recoveries may not be prepared on smaller jobs, however, were analysed at a frequency

7. QA/QC samples shown within the report that states the word "BATCH"; Batch Blank, Matrix Spike and Duplicate were prepared on samples from outside of reported job.

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.

Surr. (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.

INS: Insufficient sample for this test

>: Greater than

LCS: Laboratory Control Sample

NT: Not tested

<: Less than

RPD: Relative Percent Difference

NA: Test not required

PQL: Practical Quantitation Limit

Laboratory Acceptance Criteria

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals, 60-140% for organics is acceptable.

Matrix heterogeneity may result in matrix spike analyses falling outside these limits

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

Results <10 times the PQL : No Limit

Results between 10-20 times the PQL : RPD must lie between 0-50%

Results >20 times the PQL : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

****Methods Number Description:**

ESA-MP-01	Determination of metals by MP-AES
ESA-MP-02	Digestion of soil samples for MP-AES analysis
ESA-MP-03	Preparation of water samples for metals determination by MP-AES
ESA-MP-04	TCLP for inorganic contaminants
ESA-MP-05	Digestion of paint and dust samples for lead content determination
ESA-MP-06	Digestion of air filters
ESA-MP-07	Digestion of swabs for determination of lead content in dust
ESA-P-ORG3	Analysis of TRH and TPH by GC-FID
ESA-P-ORG04	Separatory funnel extraction of PAHs from water matrices including TCLP extracts
ESA-P-ORG05	Separatory funnel extraction of TRH and TPH from water matrices
ESA-P-ORG07	Extraction of BTEX and VTRX from soil matrices
ESA-P-ORG08	Analysis of soil extracts and waters by P&T GCMS
ESA-P-ORG09	Extraction of TRH from solid matrices
ESA-P-ORG11	Extraction of OCP OPP and PAH from soil matrices
ESA-P-ORG12	Analysis of OCP OPP and PAHs by GC-MS

*pH test

*ElectroConductivity testing with Aqua CPA Conduct./pH meter



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Certificate of Analysis

AD Envirotech Aust Pty Ltd
Unit 4/ 10-11 Millenium Court
Silverwater
NSW 2128



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **P Edmunds**

Report **423371-S**
Client Reference 7773
Received Date Jun 27, 2014

Client Sample ID			7773-SP1	7773-SP1-01A	7773-SP1-02A	7773-SP1-03A
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S14-Jn24360	S14-Jn24365	S14-Jn24366	S14-Jn24367
Date Sampled			Not Provided	Not Provided	Not Provided	Not Provided
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-36 (Total)	50	mg/kg	< 50	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	-	-	-
2-Fluorobiphenyl (surr.)	1	%	93	-	-	-
p-Terphenyl-d14 (surr.)	1	%	113	-	-	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	7773-SP1 Soil S14-Jn24360 Not Provided	7773-SP1-01A Soil S14-Jn24365 Not Provided	7773-SP1-02A Soil S14-Jn24366 Not Provided	7773-SP1-03A Soil S14-Jn24367 Not Provided
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Dibutylchloredate (surr.)	1	%	120	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	95	-	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibutylchloredate (surr.)	1	%	-	78	119	127
Speciated Phenols						
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2.4.6-Trichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenol	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Methylphenol (o-Cresol)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
3&4-Methylphenol (m&p-Cresol)	1	mg/kg	-	< 1	< 1	< 1
2-Chlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Nitrophenol	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pentachlorophenol	1	mg/kg	-	< 1	< 1	< 1
Phenol-d5 (surr.)	1	%	-	76	96	88

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	7773-SP1 Soil S14-Jn24360 Not Provided	7773-SP1-01A Soil S14-Jn24365 Not Provided	7773-SP1-02A Soil S14-Jn24366 Not Provided	7773-SP1-03A Soil S14-Jn24367 Not Provided
Organophosphorus Pesticides (OP)						
Chlorpyrifos	0.5	mg/kg	< 0.5	-	-	-
Coumaphos	0.5	mg/kg	< 0.5	-	-	-
Demeton (total)	1	mg/kg	< 1	-	-	-
Diazinon	0.5	mg/kg	< 0.5	-	-	-
Dichlorvos	0.5	mg/kg	< 0.5	-	-	-
Dimethoate	0.5	mg/kg	< 0.5	-	-	-
Disulfoton	0.5	mg/kg	< 0.5	-	-	-
Ethoprop	0.5	mg/kg	< 0.5	-	-	-
Fenitrothion	0.5	mg/kg	< 0.5	-	-	-
Fensulfothion	0.5	mg/kg	< 0.5	-	-	-
Fenthion	0.5	mg/kg	< 0.5	-	-	-
Methyl azinphos	0.5	mg/kg	< 0.5	-	-	-
Malathion	0.5	mg/kg	< 0.5	-	-	-
Methyl parathion	0.5	mg/kg	< 0.5	-	-	-
Mevinphos	0.5	mg/kg	< 0.5	-	-	-
Monocrotophos	10	mg/kg	< 10	-	-	-
Parathion	0.5	mg/kg	< 0.5	-	-	-
Phorate	0.5	mg/kg	< 0.5	-	-	-
Profenofos	0.5	mg/kg	< 0.5	-	-	-
Prothiofos	0.5	mg/kg	< 0.5	-	-	-
Ronnel	0.5	mg/kg	< 0.5	-	-	-
Stirophos	0.5	mg/kg	< 0.5	-	-	-
Trichloronate	0.5	mg/kg	< 0.5	-	-	-
Triphenylphosphate (surr.)	1	%	84	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.4	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	23	-	-	-
Copper	5	mg/kg	21	-	-	-
Lead	5	mg/kg	13	-	-	-
Mercury	0.05	mg/kg	< 0.05	-	-	-
Nickel	5	mg/kg	23	-	-	-
Zinc	5	mg/kg	42	-	-	-
% Moisture	0.1	%	13	24	11	13

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	7773-SP2-01A Soil S14-Jn24368 Not Provided	7773-SP2-02A Soil S14-Jn24369 Not Provided
Polychlorinated Biphenyls (PCB)				
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			7773-SP2-01A	7773-SP2-02A
Sample Matrix			Soil	Soil
Eurofins mgt Sample No.			S14-Jn24368	S14-Jn24369
Date Sampled			Not Provided	Not Provided
Test/Reference	LOR	Unit		
Polychlorinated Biphenyls (PCB)				
Total PCB	0.5	mg/kg	< 0.5	< 0.5
Dibutylchloredate (surr.)	1	%	120	119
Speciated Phenols				
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5
2,4,5-Trichlorophenol	0.5	mg/kg	< 0.5	< 0.5
2,4,6-Trichlorophenol	0.5	mg/kg	< 0.5	< 0.5
Phenol	0.5	mg/kg	< 0.5	< 0.5
2-Methylphenol (o-Cresol)	0.5	mg/kg	< 0.5	< 0.5
3&4-Methylphenol (m&p-Cresol)	1	mg/kg	< 1	< 1
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5
2-Nitrophenol	0.5	mg/kg	< 0.5	< 0.5
4-Chloro-3-methylphenol	0.5	mg/kg	< 0.5	< 0.5
Pentachlorophenol	1	mg/kg	< 1	< 1
Phenol-d5 (surr.)	1	%	85	91
% Moisture	0.1	%	7.9	7.7

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jul 01, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jul 01, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jul 01, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jun 30, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jul 01, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Speciated Phenols	Sydney	Jul 01, 2014	14 Day
- Method: E008 Speciated Phenols			
Organophosphorus Pesticides (OP)	Sydney	Jul 01, 2014	14 Day
- Method: E014 Organophosphorus Pesticides (OP)			
Metals M8	Sydney	Jun 30, 2014	28 Day
- Method: LTM-MET-3040_R0 TOTAL AND DISSOLVED METALS AND MERCURY IN WATERS BY ICP-MS			
% Moisture	Sydney	Jun 30, 2014	28 Day
- Method: E005 Moisture Content			

Company Name: AD Envirotech Aust Pty Ltd
Address: Unit 4/ 10-11 Millenium Court
Silverwater
NSW 2128
Client Job No.: 7773

Order No.:
Report #: 423371
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Jun 27, 2014 4:30 PM
Due: Jul 7, 2014
Priority: 5 Day
Contact Name: D. Jones

Eurofins | mgt Client Manager: Mary Makarios

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	Metals M8 filtered	Polychlorinated Biphenyls (PCB)	Speciated Phenols	Organophosphorus Pesticides (OP)	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
7773-SP1	Not Provided		Soil	S14-Jn24360	X	X	X	X				X	X
7773-SW-01	Not Provided		Water	S14-Jn24361					X				
7773-SW-02	Not Provided		Water	S14-Jn24362					X				
7773-SW-03	Not Provided		Water	S14-Jn24363					X				
7773-SW-04	Not Provided		Water	S14-Jn24364					X				
7773-SP1-01A	Not Provided		Soil	S14-Jn24365	X					X	X		
7773-SP1-02A	Not Provided		Soil	S14-Jn24366	X					X	X		
7773-SP1-03A	Not Provided		Soil	S14-Jn24367	X					X	X		
7773-SP2-01A	Not Provided		Soil	S14-Jn24368	X					X	X		
7773-SP2-02A	Not Provided		Soil	S14-Jn24369	X					X	X		

Company Name: AD Envirotech Aust Pty Ltd
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Contact Name: D. Jones

Eurofins | mgt Client Manager: Mary Makarios

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	Metals M8 filtered	Polychlorinated Biphenyls (PCB)	Speciated Phenols	Organophosphorus Pesticides (OP)	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
7773-SW-BR1	Not Provided		Water	S14-Jn24370					X				
7773-RINSATE-01	Not Provided		Water	S14-Jn24371					X				

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Speciated Phenols							
2,4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4,6-Trichlorophenol	mg/kg	< 0.5			0.5	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.5			0.5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 1			1	Pass	
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2-Nitrophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Method Blank							
Organophosphorus Pesticides (OP)							
Chlorpyrifos	mg/kg	< 0.5			0.5	Pass	
Coumaphos	mg/kg	< 0.5			0.5	Pass	
Demeton (total)	mg/kg	< 1			1	Pass	
Diazinon	mg/kg	< 0.5			0.5	Pass	
Dichlorvos	mg/kg	< 0.5			0.5	Pass	
Dimethoate	mg/kg	< 0.5			0.5	Pass	
Disulfoton	mg/kg	< 0.5			0.5	Pass	
Ethoprop	mg/kg	< 0.5			0.5	Pass	
Fenitrothion	mg/kg	< 0.5			0.5	Pass	
Fensulfothion	mg/kg	< 0.5			0.5	Pass	
Fenthion	mg/kg	< 0.5			0.5	Pass	
Methyl azinphos	mg/kg	< 0.5			0.5	Pass	
Malathion	mg/kg	< 0.5			0.5	Pass	
Methyl parathion	mg/kg	< 0.5			0.5	Pass	
Mevinphos	mg/kg	< 0.5			0.5	Pass	
Monocrotophos	mg/kg	< 10			10	Pass	
Parathion	mg/kg	< 0.5			0.5	Pass	
Phorate	mg/kg	< 0.5			0.5	Pass	
Profenofos	mg/kg	< 0.5			0.5	Pass	
Prothiofos	mg/kg	< 0.5			0.5	Pass	
Ronnel	mg/kg	< 0.5			0.5	Pass	
Stirophos	mg/kg	< 0.5			0.5	Pass	
Trichloronate	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	102			70-130	Pass	
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	125			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
TRH >C10-C16	%	80			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	107			70-130	Pass	
Acenaphthylene	%	97			70-130	Pass	
Anthracene	%	116			70-130	Pass	
Benz(a)anthracene	%	82			70-130	Pass	
Benzo(a)pyrene	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	%	95			70-130	Pass	
Benzo(g,h,i)perylene	%	97			70-130	Pass	
Benzo(k)fluoranthene	%	108			70-130	Pass	
Chrysene	%	116			70-130	Pass	
Dibenz(a,h)anthracene	%	95			70-130	Pass	
Fluoranthene	%	106			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	95			70-130	Pass	
Naphthalene	%	103			70-130	Pass	
Phenanthrene	%	88			70-130	Pass	
Pyrene	%	105			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	97			70-130	Pass	
4,4'-DDD	%	103			70-130	Pass	
4,4'-DDE	%	105			70-130	Pass	
4,4'-DDT	%	94			70-130	Pass	
α-BHC	%	103			70-130	Pass	
Aldrin	%	99			70-130	Pass	
β-BHC	%	98			70-130	Pass	
δ-BHC	%	100			70-130	Pass	
Dieldrin	%	100			70-130	Pass	
Endosulfan I	%	98			70-130	Pass	
Endosulfan II	%	98			70-130	Pass	
Endosulfan sulphate	%	96			70-130	Pass	
Endrin	%	98			70-130	Pass	
Endrin aldehyde	%	102			70-130	Pass	
Endrin ketone	%	91			70-130	Pass	
γ-BHC (Lindane)	%	97			70-130	Pass	
Heptachlor	%	96			70-130	Pass	
Heptachlor epoxide	%	102			70-130	Pass	
Hexachlorobenzene	%	127			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor			%	94			70-130	Pass	
LCS - % Recovery									
Polychlorinated Biphenyls (PCB)									
Aroclor-1260			%	89			70-130	Pass	
LCS - % Recovery									
Speciated Phenols									
2,4-Dimethylphenol			%	77			30-130	Pass	
2,4,5-Trichlorophenol			%	95			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)			%	100			30-130	Pass	
2-Chlorophenol			%	100			30-130	Pass	
LCS - % Recovery									
Organophosphorus Pesticides (OP)									
Chlorpyrifos			%	116			70-130	Pass	
Coumaphos			%	98			70-130	Pass	
Dichlorvos			%	75			70-130	Pass	
Dimethoate			%	96			70-130	Pass	
Disulfoton			%	116			70-130	Pass	
Ethoprop			%	118			70-130	Pass	
Fensulfothion			%	128			70-130	Pass	
Fenthion			%	118			70-130	Pass	
Methyl azinphos			%	91			70-130	Pass	
Malathion			%	89			70-130	Pass	
Methyl parathion			%	107			70-130	Pass	
Mevinphos			%	98			70-130	Pass	
Monocrotophos			%	97			70-130	Pass	
Parathion			%	81			70-130	Pass	
Phorate			%	117			70-130	Pass	
Prothiofos			%	128			70-130	Pass	
Ronnell			%	116			70-130	Pass	
Stirophos			%	128			70-130	Pass	
Trichloronate			%	84			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	96			70-130	Pass	
Cadmium			%	95			70-130	Pass	
Chromium			%	96			70-130	Pass	
Copper			%	93			70-130	Pass	
Lead			%	99			70-130	Pass	
Mercury			%	97			70-130	Pass	
Nickel			%	95			70-130	Pass	
Zinc			%	102			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Jn25737	NCP	%	90			70-130	Pass	
TRH C10-C14	S14-Jn25737	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Jn25737	NCP	%	122			70-130	Pass	
TRH C6-C10	S14-Jn25737	NCP	%	82			70-130	Pass	
TRH >C10-C16	S14-Jn25737	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Jl00343	NCP	%	107			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4,4'-DDD	S14-JI00343	NCP	%	123			70-130	Pass	
4,4'-DDE	S14-Jn25737	NCP	%	129			70-130	Pass	
4,4'-DDT	S14-JI00343	NCP	%	91			70-130	Pass	
a-BHC	S14-JI00343	NCP	%	113			70-130	Pass	
Aldrin	S14-JI00343	NCP	%	110			70-130	Pass	
b-BHC	S14-JI00343	NCP	%	115			70-130	Pass	
d-BHC	S14-JI00343	NCP	%	116			70-130	Pass	
Dieldrin	S14-JI00343	NCP	%	111			70-130	Pass	
Endosulfan I	S14-JI00343	NCP	%	104			70-130	Pass	
Endosulfan II	S14-JI00343	NCP	%	108			70-130	Pass	
Endosulfan sulphate	S14-JI00343	NCP	%	121			70-130	Pass	
Endrin	S14-JI00343	NCP	%	105			70-130	Pass	
Endrin aldehyde	S14-JI00343	NCP	%	112			70-130	Pass	
Endrin ketone	S14-JI00343	NCP	%	113			70-130	Pass	
g-BHC (Lindane)	S14-JI00343	NCP	%	114			70-130	Pass	
Heptachlor	S14-JI00343	NCP	%	100			70-130	Pass	
Heptachlor epoxide	S14-JI00343	NCP	%	113			70-130	Pass	
Hexachlorobenzene	S14-JI00343	NCP	%	128			70-130	Pass	
Methoxychlor	S14-JI00343	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Jn25736	NCP	%	93			70-130	Pass	
Cadmium	S14-Jn25736	NCP	%	99			70-130	Pass	
Chromium	S14-Jn25736	NCP	%	103			70-130	Pass	
Copper	S14-Jn25736	NCP	%	92			70-130	Pass	
Lead	S14-Jn25736	NCP	%	100			70-130	Pass	
Mercury	S14-Jn25736	NCP	%	113			70-130	Pass	
Nickel	S14-Jn25736	NCP	%	96			70-130	Pass	
Zinc	S14-Jn25736	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-JI00343	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Jn24366	CP	%	92			70-130	Pass	
Acenaphthylene	S14-Jn24366	CP	%	91			70-130	Pass	
Anthracene	S14-Jn24366	CP	%	98			70-130	Pass	
Benz(a)anthracene	S14-Jn24366	CP	%	90			70-130	Pass	
Benzo(a)pyrene	S14-Jn24366	CP	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Jn24366	CP	%	79			70-130	Pass	
Benzo(g,h,i)perylene	S14-Jn24366	CP	%	87			70-130	Pass	
Benzo(k)fluoranthene	S14-Jn24366	CP	%	97			70-130	Pass	
Chrysene	S14-Jn24366	CP	%	100			70-130	Pass	
Dibenz(a,h)anthracene	S14-Jn24366	CP	%	89			70-130	Pass	
Fluoranthene	S14-Jn24366	CP	%	97			70-130	Pass	
Fluorene	S14-Jn24366	CP	%	93			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S14-Jn24366	CP	%	87			70-130	Pass	
Naphthalene	S14-Jn24366	CP	%	94			70-130	Pass	
Phenanthrene	S14-Jn24366	CP	%	96			70-130	Pass	
Pyrene	S14-Jn24366	CP	%	99			70-130	Pass	
Spike - % Recovery									
Speciated Phenols				Result 1					
2,4-Dimethylphenol	S14-Jn24366	CP	%	76			30-130	Pass	
2,4,5-Trichlorophenol	S14-Jn24366	CP	%	89			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
3&4-Methylphenol (m&p-Cresol)	S14-Jn24366	CP	%	95			30-130	Pass	
2-Chlorophenol	S14-Jn24366	CP	%	93			30-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Jn25736	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Jn24646	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Jn24646	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Jn24646	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Jn25736	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Jn25736	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Jn25736	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Jn24646	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Jn24646	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Jn24646	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-JI00343	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-JI00343	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-JI00343	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-JI00343	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Jn25735	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S14-Jn25735	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Jn25735	NCP	mg/kg	8.2	7.3	11	30%	Pass	
Copper	S14-Jn25735	NCP	mg/kg	72	71	2.0	30%	Pass	
Lead	S14-Jn25735	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	S14-Jn25735	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S14-Jn25735	NCP	mg/kg	64	71	10	30%	Pass	
Zinc	S14-Jn25735	NCP	mg/kg	44	49	11	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD		
Aroclor-1016	S14-JI00343	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1232	S14-JI00343	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1242	S14-JI00343	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1248	S14-JI00343	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1254	S14-JI00343	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1260	S14-JI00343	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Speciated Phenols				Result 1	Result 2	RPD		
2,4-Dichlorophenol	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dimethylphenol	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,6-Trichlorophenol	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenol	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Methylphenol (o-Cresol)	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	S14-Jn24365	CP	mg/kg	< 1	< 1	<1	30%	Pass
2-Chlorophenol	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Nitrophenol	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	S14-Jn24365	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pentachlorophenol	S14-Jn24365	CP	mg/kg	< 1	< 1	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Mary Makarios	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Certificate of Analysis

AD Envirotech Aust Pty Ltd
Unit 4/ 10-11 Millenium Court
Silverwater
NSW 2128



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **P Edmunds**

Report **423371-W**
Client Reference **7773**
Received Date **Jun 27, 2014**

Client Sample ID			7773-SW-01	7773-SW-02	7773-SW-03	7773-SW-04
Sample Matrix			Water	Water	Water	Water
Eurofins mgt Sample No.			S14-Jn24361	S14-Jn24362	S14-Jn24363	S14-Jn24364
Date Sampled			Not Provided	Not Provided	Not Provided	Not Provided
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Chromium (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Copper (filtered)	0.001	mg/L	0.001	0.002	0.003	0.003
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.001	0.002	0.001	0.002
Zinc (filtered)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005

Client Sample ID			7773-SW-BR1	7773-RINSATE-01
Sample Matrix			Water	Water
Eurofins mgt Sample No.			S14-Jn24370	S14-Jn24371
Date Sampled			Not Provided	Not Provided
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic (filtered)	0.001	mg/L	< 0.001	< 0.001
Cadmium (filtered)	0.0001	mg/L	< 0.0001	< 0.0001
Chromium (filtered)	0.001	mg/L	< 0.001	< 0.001
Copper (filtered)	0.001	mg/L	0.004	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.002	< 0.001
Zinc (filtered)	0.005	mg/L	< 0.005	< 0.005

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

Description

Metals M8 filtered

Testing Site

Sydney

Extracted

Jun 27, 2014

Holding Time

28 Day

- Method: E020/E030 Filtered Metals in Water & E026 Mercury

Company Name: AD Envirotech Aust Pty Ltd
Address: Unit 4/ 10-11 Millenium Court
Silverwater
NSW 2128
Client Job No.: 7773

Order No.:
Report #: 423371
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Jun 27, 2014 4:30 PM
Due: Jul 7, 2014
Priority: 5 Day
Contact Name: D. Jones

Eurofins | mgt Client Manager: Mary Makarios

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	Metals M8 filtered	Polychlorinated Biphenyls (PCB)	Speciated Phenols	Organophosphorus Pesticides (OP)	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
7773-SP1	Not Provided		Soil	S14-Jn24360	X	X	X	X				X	X
7773-SW-01	Not Provided		Water	S14-Jn24361					X				
7773-SW-02	Not Provided		Water	S14-Jn24362					X				
7773-SW-03	Not Provided		Water	S14-Jn24363					X				
7773-SW-04	Not Provided		Water	S14-Jn24364					X				
7773-SP1-01A	Not Provided		Soil	S14-Jn24365	X					X	X		
7773-SP1-02A	Not Provided		Soil	S14-Jn24366	X					X	X		
7773-SP1-03A	Not Provided		Soil	S14-Jn24367	X					X	X		
7773-SP2-01A	Not Provided		Soil	S14-Jn24368	X					X	X		
7773-SP2-02A	Not Provided		Soil	S14-Jn24369	X					X	X		

Company Name: AD Envirotech Aust Pty Ltd
Address: Unit 4/ 10-11 Millenium Court
Silverwater
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Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	Metals M8 filtered	Polychlorinated Biphenyls (PCB)	Speciated Phenols	Organophosphorus Pesticides (OP)	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
7773-SW-BR1	Not Provided		Water	S14-Jn24370					X				
7773-RINSATE-01	Not Provided		Water	S14-Jn24371					X				

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Heavy Metals									
Arsenic (filtered)			mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)			mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)			mg/L	< 0.001			0.001	Pass	
Copper (filtered)			mg/L	< 0.001			0.001	Pass	
Lead (filtered)			mg/L	< 0.001			0.001	Pass	
Mercury (filtered)			mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)			mg/L	< 0.001			0.001	Pass	
Zinc (filtered)			mg/L	< 0.005			0.005	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic (filtered)			%	104			70-130	Pass	
Cadmium (filtered)			%	106			70-130	Pass	
Chromium (filtered)			%	103			70-130	Pass	
Copper (filtered)			%	103			70-130	Pass	
Lead (filtered)			%	112			70-130	Pass	
Mercury (filtered)			%	107			70-130	Pass	
Nickel (filtered)			%	106			70-130	Pass	
Zinc (filtered)			%	115			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S14-Jn24361	CP	%	116			70-130	Pass	
Cadmium (filtered)	S14-Jn24361	CP	%	110			70-130	Pass	
Chromium (filtered)	S14-Jn24361	CP	%	105			70-130	Pass	
Copper (filtered)	S14-Jn24361	CP	%	97			70-130	Pass	
Lead (filtered)	S14-Jn24361	CP	%	105			70-130	Pass	
Mercury (filtered)	S14-Jn24361	CP	%	105			70-130	Pass	
Nickel (filtered)	S14-Jn24361	CP	%	101			70-130	Pass	
Zinc (filtered)	S14-Jn24361	CP	%	106			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S14-Jn25742	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S14-Jn25742	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Chromium (filtered)	S14-Jn25742	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S14-Jn25742	NCP	mg/L	0.0030	0.0033	3.0	30%	Pass	
Lead (filtered)	S14-Jn25742	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S14-Jn25742	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S14-Jn25742	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	S14-Jn25742	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

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

Authorised By

Mary Makarios	Client Services
James Norford	Senior Analyst-Metal (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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Certificate of Analysis

AD Envirotech Aust Pty Ltd
Unit 4/ 10-11 Millenium Court
Silverwater
NSW 2128



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: Evan Webb

Report 425789-W
Client Reference 7773
Received Date Jul 21, 2014

Client Sample ID			7773-SW-01A	7773-SW-01B	7773-SW-02A	7773-SW-02B
Sample Matrix			Water	Water	Water	Water
Eurofins mgt Sample No.			S14-JI18243	S14-JI18244	S14-JI18245	S14-JI18246
Date Sampled			Not Provided	Not Provided	Not Provided	Not Provided
Test/Reference	LOR	Unit				
Alkali Metals						
Calcium	0.5	mg/L	63	64	70	72
Magnesium	0.5	mg/L	60	120	65	67
Hardness Set						
Hardness mg equivalent CaCO ₃ /L	1	mg/L	410	640	450	460

Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

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

Description	Testing Site	Extracted	Holding Time
Hardness Set			
Calcium	Sydney	Jul 21, 2014	180 Day
- Method: LTM-MET-3040_R0 TOTAL AND DISSOLVED METALS AND MERCURY IN WATERS BY ICP-MS			
Magnesium	Sydney	Jul 21, 2014	180 Day
- Method: LTM-MET-3040_R0 TOTAL AND DISSOLVED METALS AND MERCURY IN WATERS BY ICP-MS			
Hardness mg equivalent CaCO ₃ /L	Sydney	Jul 21, 2014	28 Day
- Method: E020.1 Hardness in water			

Company Name: AD Envirotech Aust Pty Ltd
Address: Unit 4/ 10-11 Millenium Court
Silverwater
NSW 2128
Client Job No.: 7773

Order No.:
Report #: 425789
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Jul 21, 2014 3:10 PM
Due: Jul 22, 2014
Priority: 1 Day
Contact Name: P Edmunds

Eurofins | mgt Client Manager: Mary Makarios

Sample Detail					Hardness Set
Laboratory where analysis is conducted					
Melbourne Laboratory - NATA Site # 1254 & 14271					
Sydney Laboratory - NATA Site # 18217					X
Brisbane Laboratory - NATA Site # 20794					
External Laboratory					
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
7773-SW-01A	Not Provided		Water	S14-JI18243	X
7773-SW-01B	Not Provided		Water	S14-JI18244	X
7773-SW-02A	Not Provided		Water	S14-JI18245	X
7773-SW-02B	Not Provided		Water	S14-JI18246	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

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4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
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****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

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ppb: Parts per billion

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ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
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CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Alkali Metals										
Calcium				mg/L	< 0.5			0.5	Pass	
Magnesium				mg/L	< 0.5			0.5	Pass	
LCS - % Recovery										
Alkali Metals										
Calcium				%	95			70-130	Pass	
Magnesium				%	107			70-130	Pass	
Test	Lab Sample ID	QA Source		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Alkali Metals					Result 1					
Calcium	M14-JI14208	NCP		%	87			70-130	Pass	
Magnesium	M14-JI14208	NCP		%	97			70-130	Pass	
Test	Lab Sample ID	QA Source		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Alkali Metals					Result 1	Result 2	RPD			
Calcium	S14-JI18246	CP		mg/L	72	71	1.0	30%	Pass	
Magnesium	S14-JI18246	CP		mg/L	67	67	1.0	30%	Pass	
Duplicate										
Hardness Set					Result 1	Result 2	RPD			
Hardness mg equivalent CaCO ₃ /L	S14-JI18246	CP		mg/L	460	450	1.0	30%	Pass	

Comments

Sample Integrity

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

Authorised By

Mary Makarios Client Services
Ivan Taylor Senior Analyst-Metal (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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Environmental and OH&S Laboratory

A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court,
Silverwater 2128

A.C.N. 093 452 950

Analysis report: 7773 ASB 1

Date Received: 27.06.2014
Date Analysed: 27.06.2014
Report Date: 30.06.2014
Client: The Next Generation
Job Location: Eastern Creek NSW
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)

Analysis performed by:

Dr Dominika Wojtalewicz (MRACI CCHEM)
Laboratory Manager/Principal Chemist
NATA approved asbestos identifier

Results Authorised By:

Dr Dominika Wojtalewicz (MRACI CCHEM)
Laboratory Manager/Principal Chemist
NATA signatory



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
7773-Asb1	Soil	45 grams	Chrysotile asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Amosite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Crocidolite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Synthetic mineral fibres NOT detected	Nil
			Organic fibres detected	Nil
7773-Asb2	Soil	40 grams	Chrysotile asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Amosite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Crocidolite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Synthetic mineral fibres NOT detected	Nil
			Organic fibres detected	Nil
7773-Asb3	Soil	52 grams	Chrysotile asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Amosite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Crocidolite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Synthetic mineral fibres NOT detected	Nil
			Organic fibres detected	Nil
7773-Asb4	Soil	62 grams	Chrysotile asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Amosite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Crocidolite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Synthetic mineral fibres NOT detected	Nil
			Organic fibres detected	Nil
7773-Asb5	Soil	45 grams	Chrysotile asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Amosite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Crocidolite asbestos NOT detected	No asbestos detected at reporting limit of 0.1 g/kg.
			Synthetic mineral fibres NOT detected	Nil
			Organic fibres detected	Nil
7773-Asb6	Fibre Cement	2.4 x 2.3 x 0.4	Chrysotile asbestos detected	Nil
			Amosite asbestos NOT detected	Nil
			Crocidolite asbestos detected	Nil
			Synthetic mineral fibres NOT detected	Nil
			Organic fibres detected	Nil

General Comments:

All samples are analysed as received.

Sampling performed by AD Envirotech is not covered by NATA scope.

Samples are stored for period of 3 months.

Due to the difficulty of estimating the load on the swab the test is carried out for presence or absence of asbestos only.

¹ Independent confirming technique such as infrared spectroscopy, X-ray diffraction, scanning or transmission electron microscopy is advised.



Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

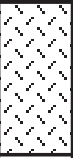
APPENDIX VIII

BOREHOLE LOGS

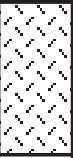
BOREHOLE LOG

Borehole No.				BH04A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.801712 S, 150.826329 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH04A				Dark brown silty loam								0	
						Light brown medium clay, low plasticity									
1						End of Borehole								1	
2															
3															
4															

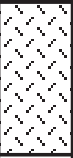
BOREHOLE LOG

Borehole No.				BH03A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.801588 S, 150.825851 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH03A				Dark brown silty loam								0	
1						End of Borehole								1	
2															
3															
4															

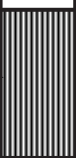
BOREHOLE LOG

Borehole No.				BH02 A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.800936 S, 150.825882 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH02A				Dark brown silty loam								0	
1						End of Borehole								1	
2															
3															
4															

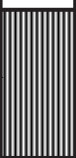
BOREHOLE LOG

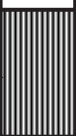
Borehole No.				BH01A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.800585 S, 150.825866 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH01A				Dark brown silty loam								0	
1						End of Borehole								1	
2															
3															
4															

BOREHOLE LOG

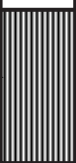
Borehole No.				SP2-02A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.801147 S, 150.824906 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		SP2-02A				Light brown sandy loam								ASB5	
1						End of Borehole									
2															
3															
4															

BOREHOLE LOG

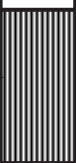
Borehole No.				SP2-01A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.801139 S, 150.824812 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		SP2-01A				Light brown sandy loam								ASB4	
1						End of Borehole								1	
2															
3															
4															

BOREHOLE LOG				Borehole No.	SP1-03A		
Client	DADI			Project No.	7773		
Project	EI			Stage	II		
Location	-33.801132 S, 150.825841 E			Date	25.06.2014		
Method	Hand Auger	Casing type	N/A	Screen type	N/A		
Diameter	N/A	Casing length	N/A	Screen length	N/A		
Auger type	N/A	Casing diam.	N/A	Screen diam.	N/A		
Consultant	D. Jones	Logged by		Signature			
Depth, m	Sample ID	Graphic log	Description	Munsell colour index	PID, ppm	SWL, moisture	Remarks
0	SP1-03A		Light brown sandy loam				0 ASB3
1			End of Borehole				1
2							
3							
4							
A. D. Envirotech Australia Pty Ltd							

BOREHOLE LOG

Borehole No.				SP1-02A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.801182 S, 150.825786 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		SP1-02A				Light brown sandy loam								ASB2	
1						End of Borehole								1	
2															
3															
4															

BOREHOLE LOG

Borehole No.				SP1-01A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.801337 S, 150.825738 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		SP1-01A				Light brown sandy loam								ASB1	
1						End of Borehole									
2															
3															
4															

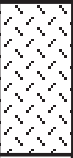
BOREHOLE LOG

Borehole No.				BH16											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.804252 S, 150.822908 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH16				Brown clay loam								0	
1						End of Borehole								1	
2															
3															
4															

BOREHOLE LOG

Borehole No.				BH15											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.804545 S, 150.824176 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH15				Brown clay loam								0	
1						End of Borehole								1	
2															
3															
4															

BOREHOLE LOG

Borehole No.				BH14											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.803612 S, 150.822605 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH14				Brown silty loam								0	
1						End of Borehole								1	
2															
3															
4															

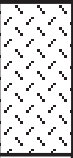
BOREHOLE LOG

Borehole No.				BH13			
Client	DADI			Project No.	7773		
Project	EI			Stage	II		
Location	-33.802837 S, 150.823394 E			Date	25.06.2014		
Method	Hand Auger	Casing type	N/A	Screen type	N/A		
Diameter	N/A	Casing length	N/A	Screen length	N/A		
Auger type	N/A	Casing diam.	N/A	Screen diam.	N/A		
Consultant	D. Jones	Logged by		Signature			
Depth, m	Sample ID	Graphic log	Description	Munsell colour index	PID, ppm	SWL, moisture	Remarks
0	BH13		Brown silty loam				0
			Light brown sandy loam				
1			End of Borehole				1
2							
3							
4							

BOREHOLE LOG

Borehole No.				BH12											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.802644 S, 150.822625 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH12				Brown silty loam								0	
1						End of Borehole								1	
2															
3															
4															

BOREHOLE LOG

Borehole No.				BH11											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.802318 S, 150.821970 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH11				Brown silty loam								0	
1						End of Borehole								1	
2															
3															
4															

BOREHOLE LOG

Borehole No.				BH10											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.804667 S, 150.825407 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH10				Brown clay loam								0	
1						End of Borehole								1	
2															
3															
4															

BOREHOLE LOG

Borehole No.				BH09											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.801861 S, 150.823091 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH09				Dark brown silty loam								0	
1						End of Borehole								1	
2															
3															
4															

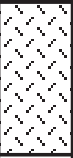
BOREHOLE LOG

Borehole No.				BH08A			
Client	DADI			Project No.	7773		
Project	EI			Stage	II		
Location	-33.801572 S, 150.822111 E			Date	25.06.2014		
Method	Hand Auger	Casing type	N/A	Screen type	N/A		
Diameter	N/A	Casing length	N/A	Screen length	N/A		
Auger type	N/A	Casing diam.	N/A	Screen diam.	N/A		
Consultant	D. Jones	Logged by		Signature			
Depth, m	Sample ID	Graphic log	Description	Munsell colour index	PID, ppm	SWL, moisture	Remarks
0	BH08A BR01		Brown silty loam				0
			Light brown sandy loam				
			End of Borehole				
1							1
2							
3							
4							

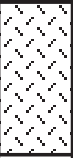
BOREHOLE LOG

Borehole No.				BH07			
Client	DADI			Project No.	7773		
Project	EI			Stage	II		
Location	-33.803061 S, 150.825069 E			Date	25.06.2014		
Method	Hand Auger	Casing type	N/A	Screen type	N/A		
Diameter	N/A	Casing length	N/A	Screen length	N/A		
Auger type	N/A	Casing diam.	N/A	Screen diam.	N/A		
Consultant	D. Jones	Logged by		Signature			
Depth, m	Sample ID	Graphic log	Description	Munsell colour index	PID, ppm	SWL, moisture	Remarks
0	BH07		Dark brown medium clay				0
1			End of Borehole				1
2							
3							
4							

BOREHOLE LOG

Borehole No.				BH06A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.801746 S, 150.824828 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH06A				Dark brown silty loam								0	
1						End of Borehole								1	
2															
3															
4															

BOREHOLE LOG

Borehole No.				BH05A											
Client		DADI		Project No.		7773									
Project		EI		Stage		II									
Location		-33.801474 S, 150.823834 E		Date		25.06.2014									
Method		Hand Auger		Casing type		N/A									
Diameter		N/A		Casing length		N/A									
Auger type		N/A		Casing diam.		N/A									
Consultant		D. Jones		Logged by		Signature									
Depth, m		Sample ID		Graphic log		Description		Munsell colour index		PID, ppm		SWL, moisture		Remarks	
0		BH05A				Dark brown silty loam (fill)								0	
1						End of Borehole								1	
2															
3															
4															

APPENDIX IX

WORKCOVER CONTAMINATED GOODS SEARCH

Our Ref: D14/050150
Your Ref: Evan Webb

24 April 2014

Attention: Evan Webb
AD Envirotech Australia Pty Ltd
4/10-11 Millenium Ct
Silverwater NSW 2128

Dear Mr Webb,

RE SITE: Lots 2 & 3 DP 1145808 Eastern Creek NSW

I refer to your site search request received by WorkCover NSW on 17 April 2014 requesting information on licences to keep dangerous goods for the above site.

Enclosed are copies of the documents that WorkCover NSW holds on Dangerous Goods Licence 35/012865 relating to the storage of dangerous goods at the above-mentioned premises, as listed on the Stored Chemical Information Database (SCID).

If you have any further queries please contact the Dangerous Goods Licensing Team on (02) 4321 5500.

Yours Sincerely



Brent Jones
Senior Licensing Officer
Dangerous Goods Notification Team



ATF

Licence No. 35/012865

APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION
THEREUNDER

DECLARATION: Please renew licence number 35/012865 to 29/11/2004. I confirm that all the licence details shown below are correct (amend if necessary).

Glenn Troy
(Signature)

GLENN TROY
(Please print name)

2/7/03
(Date signed)

for: PIONEER CONSTRUCTION MATERIALS PTY LTD

THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

WorkCover New South Wales
Dangerous Goods Licensing Section
LOCKED BAG 2906
LISAROW NSW 2252

Enquiries: ph (02) 43215500
fax (02) 92875500

Details of licence on 2 July 2003

Licence Number 35/012865

Expiry Date 29/11/2003

Licensee PIONEER CONSTRUCTION MATERIALS PTY LTD ACN 009 679 734
WALLGROVE QUARRY

Postal Address: WALLGROVE QUARRY P O BOX 3042 MOUNT DRUITT VILLAGE NSW 2770

Licence Contact GLENN TROY ~~DAVID BOLTON (MANAGER)~~ Ph. 02 9625 0444 Fax. 02 9625 2435

Premises Licensed to Keep Dangerous Goods

PIONEER CONSTRUCTION MATERIALS PTY LTD WALLGROVE QUARRY
LOT 11 OLD WALLGROVE RD EASTERN CREEK 2766

Nature of Site GRAVEL AND SAND QUARRYING

Major Supplier of Dangerous Goods VARIOUS

Emergency Contact for this Site ~~DAVID BOLTON~~ Ph. ~~0447 242 044~~

Site staffing 24 HRS 7 DAYS

GLENN TROY 0409 080 749

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	MAGAZINE	Class 1.1D 4000 KG	
		UN 0042 BOOSTERS 200 NO.	
		UN 0241 EXPLOSIVE, BLASTING, TYPE E 1000 KG	
2	MAGAZINE	Class 1.1B 1100 NO.	
		UN 0029 DETONATORS, NON-ELECTRIC 300 NO.	
		UN 0360 DETONATOR ASSEMBLIES, NON-ELECTRIC 400 NO.	
5	ABOVE-GROUND TANK	Class C1 100000 L	
		UN 00C1 DIESEL 40000 L	



WorkCover New South Wales, 400 Kent Street, Sydney 2000. Tel: 9370 5000 Fax: 9370 5999 ALL MAIL TO G.P.O. BOX 5364 SYDNEY 2001

Licence No. 35/012865

APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS



ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: Please renew licence number 35/012865 to 29/11/2002. I confirm that all the licence details shown below are correct (amend if necessary).


(Signature)

DAVID BOLTON
(Please print name)

12/11/01
(Date signed)

for: PIONEER CONSTRUCTION MATERIALS PTY LTD

THIS SIGNED DECLARATION SHOULD BE RETURNED TO: (please do not fax)

WorkCover New South Wales
Dangerous Goods Licensing Section
GPO BOX 5364
SYDNEY 2001

Enquiries: ph (02) 9370 5187
fax (02) 9370 6104

Details of licence on 31 October 2001

Licence Number 35/012865

Expiry Date 29/11/2001

Licensee PIONEER CONSTRUCTION MATERIALS PTY LTD ACN 009 679 734

WALGROVE QUARRY
WALLGROVE

3042

Postal Address: WALGROVE QUARRY BOX 3042 P O MOUNT DRUITT VILLAGE NSW 2770

Licensee Contact BILL PARMENTER (MANAGER) Ph. 02 9625 0444 Fax. 02 9625 2435

Premises Licensed to Keep Dangerous Goods
DAVID BOLTON (MANAGER)

PIONEER CONSTRUCTION MATERIALS PTY LTD WALGROVE QUARRY
LOT 11 OLD WALLGROVE RD EASTERN CREEK 2766

Nature of Site GRAVEL AND SAND QUARRYING

Major Supplier of Dangerous Goods VARIOUS

Emergency Contact for this Site BILL PARMENTER (HOME) Ph. 02 4261 2249

DAVID BOLTON
Ph: 0417 242 044

Site staffing 24 HRS 7 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	MAGAZINE	Class 1.1D	4000 KG
		UN 0042 BOOSTERS	200 NO.
		UN 0241 EXPLOSIVE, BLASTING, TYPE E	1000 KG
2	MAGAZINE	Class 1.1B	1100 NO.
		UN 0029 DETONATORS, NON-ELECTRIC	300 NO.
		UN 0360 DETONATOR ASSEMBLIES, NON-ELECTRIC	400 NO.
5	ABOVE-GROUND TANK	Class C1	100000 L
		UN 00C1 DIESEL	40000 L

Workcover New South Wales, 400 Kent Street, Sydney 2000, Telephone 9370 5000 ALL MAIL TO G.P.O. BOX 5364 SYDNEY 2001.
35/012865

SCIENTIFIC SERVICES BRANCH

Dangerous Goods Licensing

ph. (02) 9370 5187 fax (02) 9370 6105

e-mail: scid@workcover.nsw.gov.au



Attn: FRANK CALABRIA
Licensee: PIONEER CONSTRUCTION MATERIALS PTY LTD ACN 009 679 734

LEVEL 5, 75 GEORGE ST
PARRAMATTA NSW 2150

LICENCE FOR THE KEEPING OF DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATIONS THEREUNDER

Licence Number 35/012865 Expiry Date 30/11/1999 No. of Depots 5

Licensee Contact FRANK CALABRIA Ph. 9354 2607 Fax. 9354 2699

Premises Licensed to Keep Dangerous Goods
PIONEER CONSTRUCTION MATERIALS PTY LTD
LOT 11 OLD WALLGROVE RD
EASTERN CREEK 2766

Nature of Site GRAVEL AND SAND QUARRYING

Major Supplier of Dangerous Goods VARIOUS

Emergency Contact for this Site ~~MARTIN MENOLE Ph. 9625 5946~~

BILL PARMENTER

0296250788
025926630
0242612249

Site staffing 24 HRS 7 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	MAGAZINE	Class 1.1D	4000 KG
		UN 0042 BOOSTERS	200 NO.
		UN 0241 EXPLOSIVE, BLASTING, TYPE E	1000 KG
2	MAGAZINE	Class 1.1B	1100 NO.
		UN 0029 DETONATORS, NON-ELECTRIC	300 NO.
		UN 0360 DETONATOR ASSEMBLIES, NON-ELECTRIC	400 NO.
3	UNDERGROUND TANK	Class 3 — DELATTE	15000 L
		UN 1203 PETROL	14700 L
4	UNDERGROUND TANK	Class 3 — DELATTE	15000 L
		UN 1203 PETROL	14000 L
5	ABOVE-GROUND TANK	Class C1	100000 L

THESE TWO TANKS (3 AND 4) HAVE BEEN REMOVED FROM SITE.

Signature

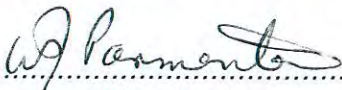
PLEASE RETAIN AS PROOF OF LICENCE -
Issued by Workcover Authority of New South Wales on 29 January 1999



**** REMINDER NOTICE ****
APPLICATION FOR RENEWAL
OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: Please renew licence number 35/012865 to 2001/2002 . I confirm that all the licence details shown below are correct (amend if necessary).


(Signature)

W.I. PARMENTER
(Please print name)

10/8/00
(Date signed)

for: PIONEER CONSTRUCTION MATERIALS PTY LTD

THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

WorkCover New South Wales
Dangerous Goods Licensing Section
GPO BOX 5364
SYDNEY 2001

Enquiries: ph (02) 9370 5187
fax (02) 9370 6104

Details of licence on 8 August 2000

Licence Number 35/012865 Expiry Date 30/11/1999 No. of Depots 3

Licensee PIONEER CONSTRUCTION MATERIALS PTY LTD ACN 009 679 734
WALGROVE QUARRY

Postal Address: WALGROVE QUARRY BOX V42 P O MOUNT DRUITT VILLAGE NSW 2770

Licensee Contact BILL PARMENTER(MANAGER) Ph. 02 9625 0444 Fax. 02 9625 2435

Premises Licensed to Keep Dangerous Goods
PIONEER CONSTRUCTION MATERIALS PTY LTD WALGROVE QUARRY
LOT 11 OLD WALLGROVE RD
EASTERN CREEK 2766

Nature of Site GRAVEL AND SAND QUARRYING

Major Supplier of Dangerous Goods VARIOUS

Emergency Contact for this Site BILL PARMENTER (HOME) Ph. 02 4261 2249 - 0407926630

Site staffing 24 HRS 7 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	MAGAZINE	Class 1.1D	4000 KG
		UN 0042 BOOSTERS	200 NO.
		UN 0241 EXPLOSIVE, BLASTING, TYPE E	1000 KG
2	MAGAZINE	Class 1.1B	1100 NO.
		UN 0029 DETONATORS, NON-ELECTRIC	300 NO.
		UN 0360 DETONATOR ASSEMBLIES, NON-ELECTRIC	400 NO.
5	ABOVE-GROUND TANK	Class C1	100000 L
		UN 00C1 DIESEL	40000 L

Application for Licence to Keep Dangerous Goods



OVER
WALES

Application for ☐ new licence ☐ amendment ☒ transfer ☐ renewal of expired licence

PART A - Applicant and site information

See page 2 of Guidance Notes.

Name of applicant

ACN

Pioneer Construction Materials Pty Limited

009 679 734

Postal address of applicant

Suburb/Town

Postcode

Lvl 5, 75 George Street

Parramatta

2150

Trading name or site occupier's name

Pioneer Construction Materials Pty Limited

Contact for licence inquiries

Phone

Fax

Name

(02) 9354 2607

(02) 9354 2699

Frank Calabria

Previous licence number (if known)

35/012865

Previous occupier (if known)

Pioneer Concrete (NSW) Pty Ltd

Site to be licensed
No

Street

Lot 11.

Old Wallgrove Road

Suburb / Town

Postcode

Eastern Creek

2766

Main business of site

Gravel & Sand quarrying

Site staffing: Hours per day

24

Days per week

7

Site emergency contact

Phone

Name

9625 5946

Martin Menole

Major supplier of dangerous goods

Various

If a new site or for amendments to depots - see page 4 of Guidance Notes.

Plan stamped by:

Name of Accredited Consultant

Date stamped

I certify that the details in this application (including any accompanying computer disk) are correct and cover all licensable quantities of dangerous goods kept on the premises.

Signature of applicant

Printed name

Date

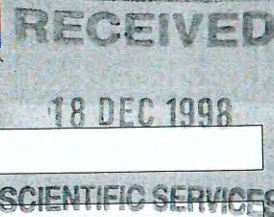
Frank Calabria

FRANK CALABRIA

1/12/98

Please send your application, marked **CONFIDENTIAL**, to:

**Dangerous Goods Licensing, Level 3, Locked Bag 10, Clarence Street,
SYDNEY NSW 2000**



Application for Licence to Keep Dangerous Goods



WORKCOVER
NEW SOUTH WALES

Application for ☐ new licence ☒ amendment ☐ transfer ☐ renewal of expired licence

Exp date 30/1/98

PART A - Applicant and site information See page 2 of Guidance Notes.

1 Name of applicant ACN
PIONEER CONCRETE NSW Pty Ltd 000 301 879

2 Postal address of applicant Suburb/Town Postcode
Box V42 P.O. Mt Druitt Mt Druitt 2770

3 Trading name or site occupier's name
PIONEER CONCRETE NSW P/L

4 Contact for licence inquiries
Phone Fax Name
02) 9625 - 3030 02) 9832 1026 Dennis Dobson

5 Previous licence number (if known) 35/ 012865

6 Previous occupier (if known) Same

7 Site to be licensed
No Street
(Lot 11) Old Wallgrove Road
Suburb / Town Postcode
Eastern Creek 2766

8 Main business of site Gravel & Sand Quarrying

9 Site staffing: Hours per day 10 Days per week 6

10 Site emergency contact
Phone Name
02) 9625 - 3030 Dennis Dobson

11 Major supplier of dangerous goods AMPOL

12 If a new site or for amendments to depots - see page 4 of Guidance Notes.
Plan stamped by: Name of Accredited Consultant Date stamped
Barry Béné 18/5/98

I certify that the details in this application (including any accompanying computer disk) are correct and cover all licensable quantities of dangerous goods kept on the premises.

13 Signature of applicant Printed name Date
Dennis Dobson DENNIS DOBSON 21.5.98.

Please send your application, marked **CONFIDENTIAL**, to:

**Dangerous Goods Licensing, Level 3, Locked Bag 10, Clarence Street,
SYDNEY NSW 2000**

RECEIVED

25 MAY 1998

SCIENTIFIC SERVICES

Licence Issued

31.8.98

What is a depot? See page 5 of the Guidance Notes.

PART C – Dangerous Goods Storage Complete one section per depot.

If you have more depots than the space provided, photocopy sufficient sheets first.

to add

Depot Number	Type of depot (see page 5)	Depot Class	Maximum storage capacity
5	Above Ground Tank	B C1	100 000 L

UN Number	Proper Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m ³
1202	DIESEL FUEL	3 C1	DIESEL	40,000	L

Depot Number	Type of depot (see page 5)	Depot Class	Maximum storage capacity

UN Number	Proper Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m ³

Depot Number	Type of depot (see page 5)	Depot Class	Maximum storage capacity

UN Number	Proper Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m ³

Depot Number	Type of depot (see page 5)	Depot Class	Maximum storage capacity

UN Number	Proper Shipping Name	PG Class (I, II, III)	Product or common name	Typical quantity	Unit, e.g. L, kg, m ³

35/012865



ROAD

MA FREEWAY

ROAD

RURAL
LANDS

RURAL
LANDS

Accrual Land

OVERBURDEN
DUMP

O/B
DUMP

O/B
DUMP

EXPLOSIVES
MAGAZINES
CLASS 1.1

QUARRY
PIT

OIL STORE

UNDER
GROUND
DIESEL
STORAGE

MOTOR SPARE
CLASS 3

OFFICE

WORKSHOP

TRANSPORT
OFFICE

5 Above Ground
Diesel Compound
Class 3 C1

CRUSHING
PLANT

ASPHALT
PLANT

RURAL
LANDS

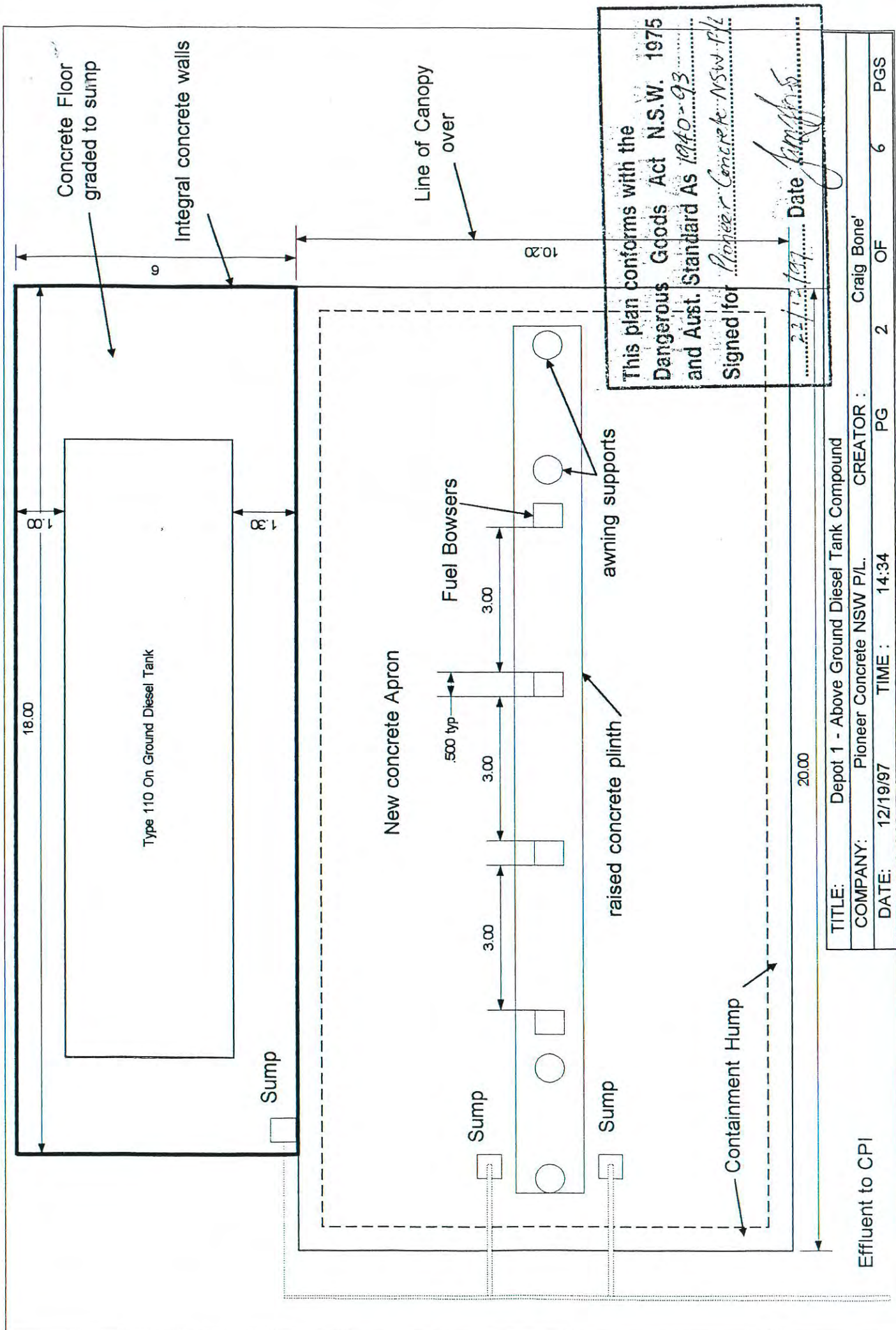
MAIN
GATE

WATER TOWER

SCALE = 1:10,000

TO
OLD WALLGROVE

Pioneer Concrete NSW P/L
Lot 11 old Wallgrove Rd Eastern Creek
1/6



This plan conforms with the
Dangerous Goods Act N.S.W. 1975
and Aust. Standard AS 1940-93

Signed for Pioneer Concrete NSW P/L

Date 23/12/97

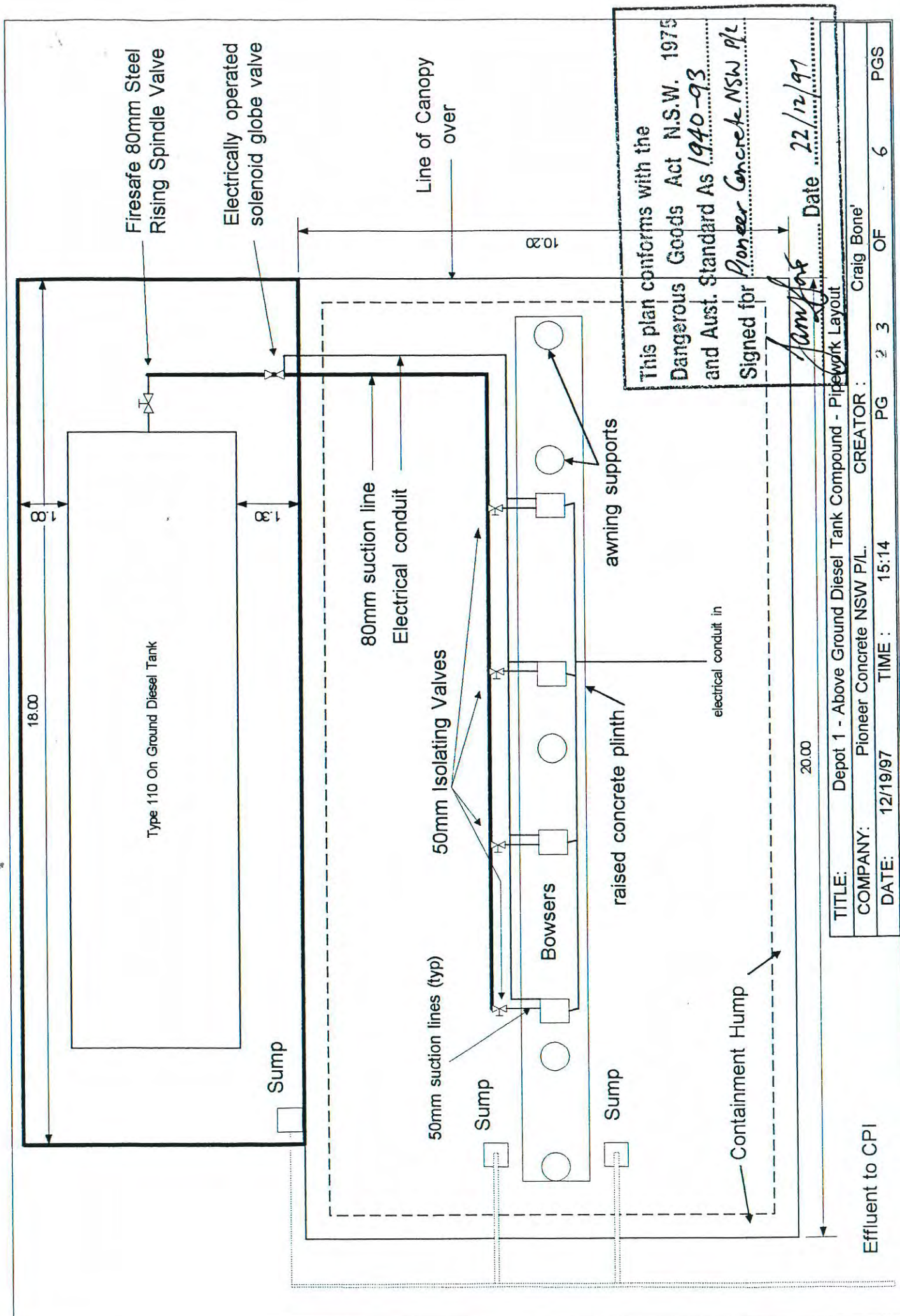
Craig Bone'

TITLE: Depot 1 - Above Ground Diesel Tank Compound

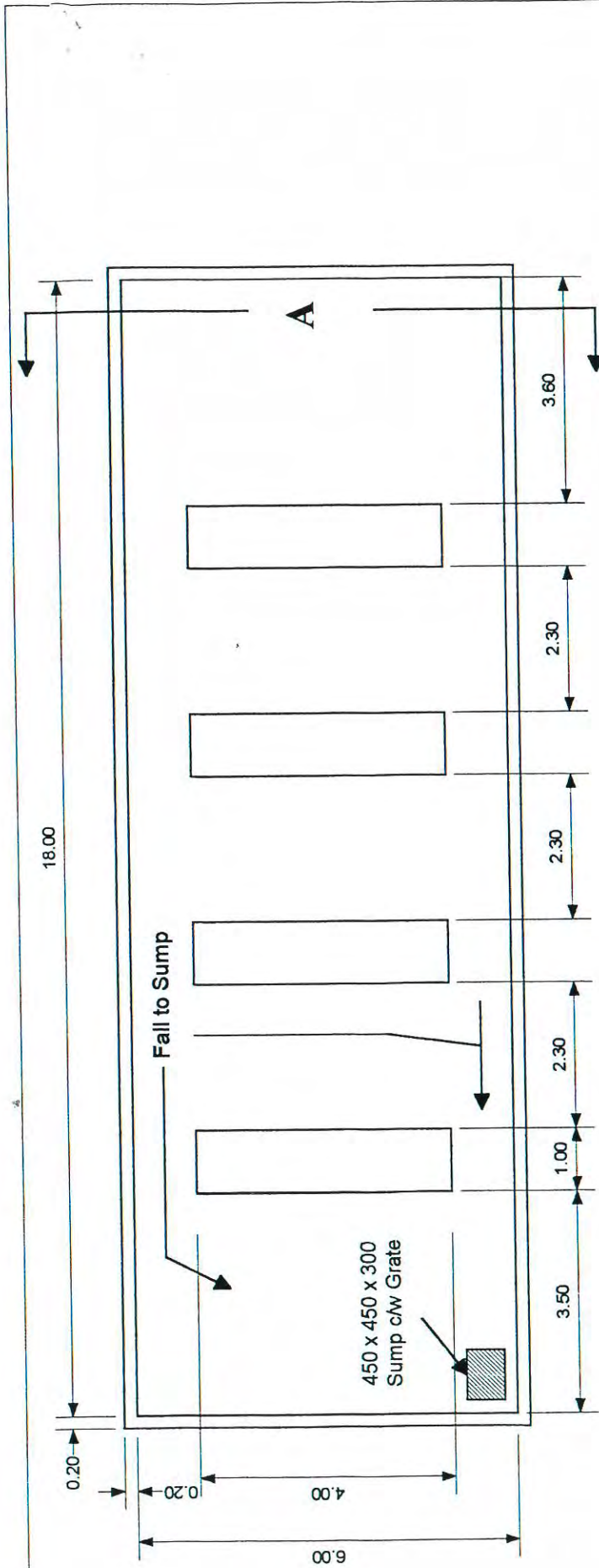
COMPANY: Pioneer Concrete NSW P/L. CREATOR :

DATE: 12/19/97 TIME : 14:34 PG 2 OF 6 PGS

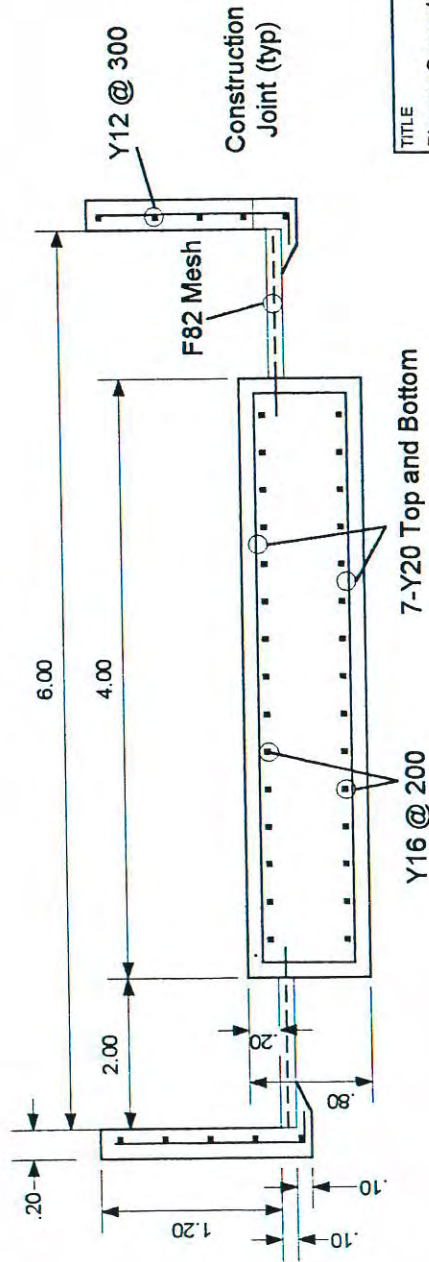
Effluent to CPI



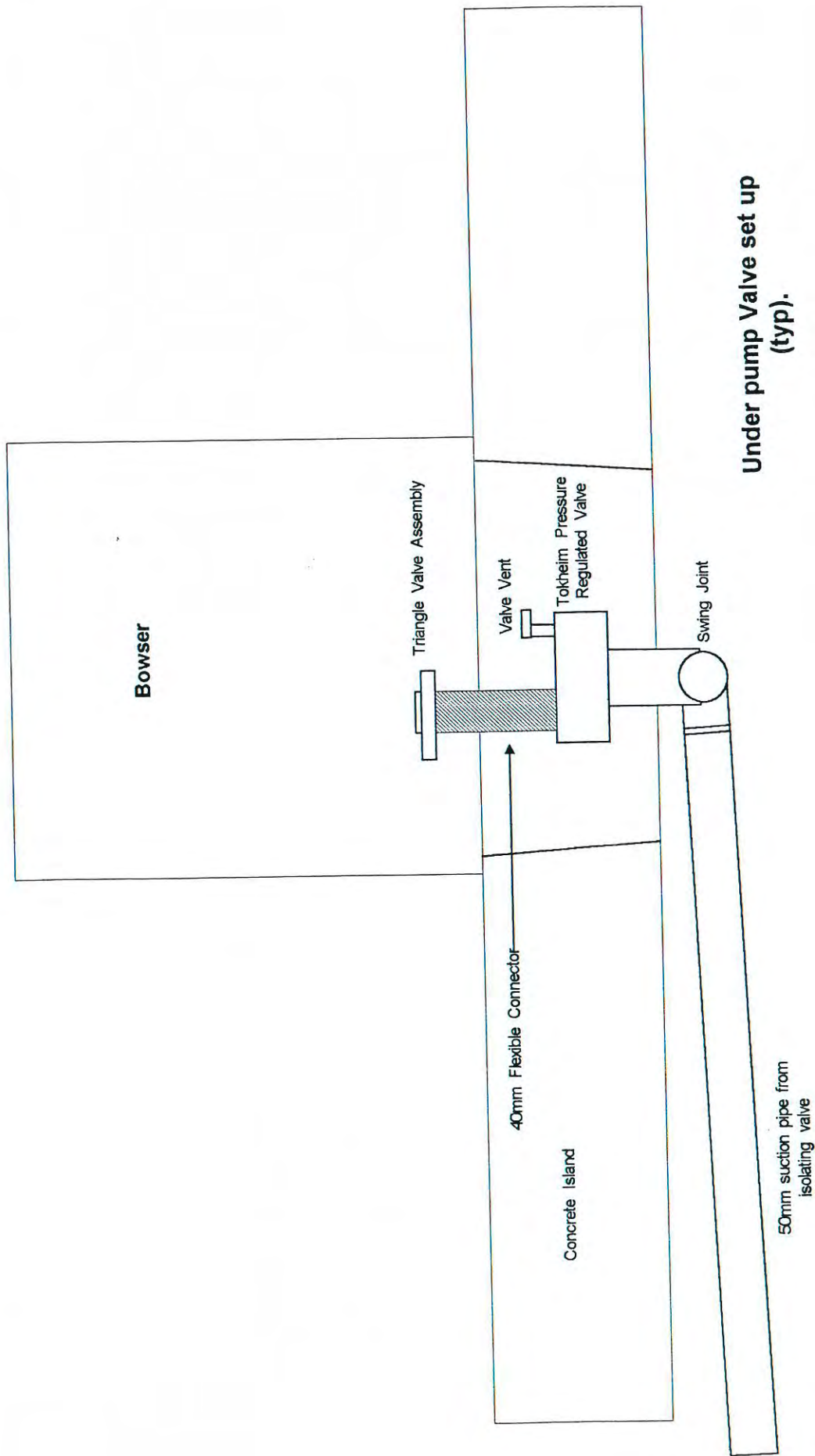
TITLE:	Depot 1 - Above Ground Diesel Tank Compound - Pipedwork Layout
COMPANY:	Pioneer Concrete NSW P/L
DATE:	12/19/97
TIME:	15:14
CREATOR:	Craig Bone'
PG	2
OF	6
PGS	6



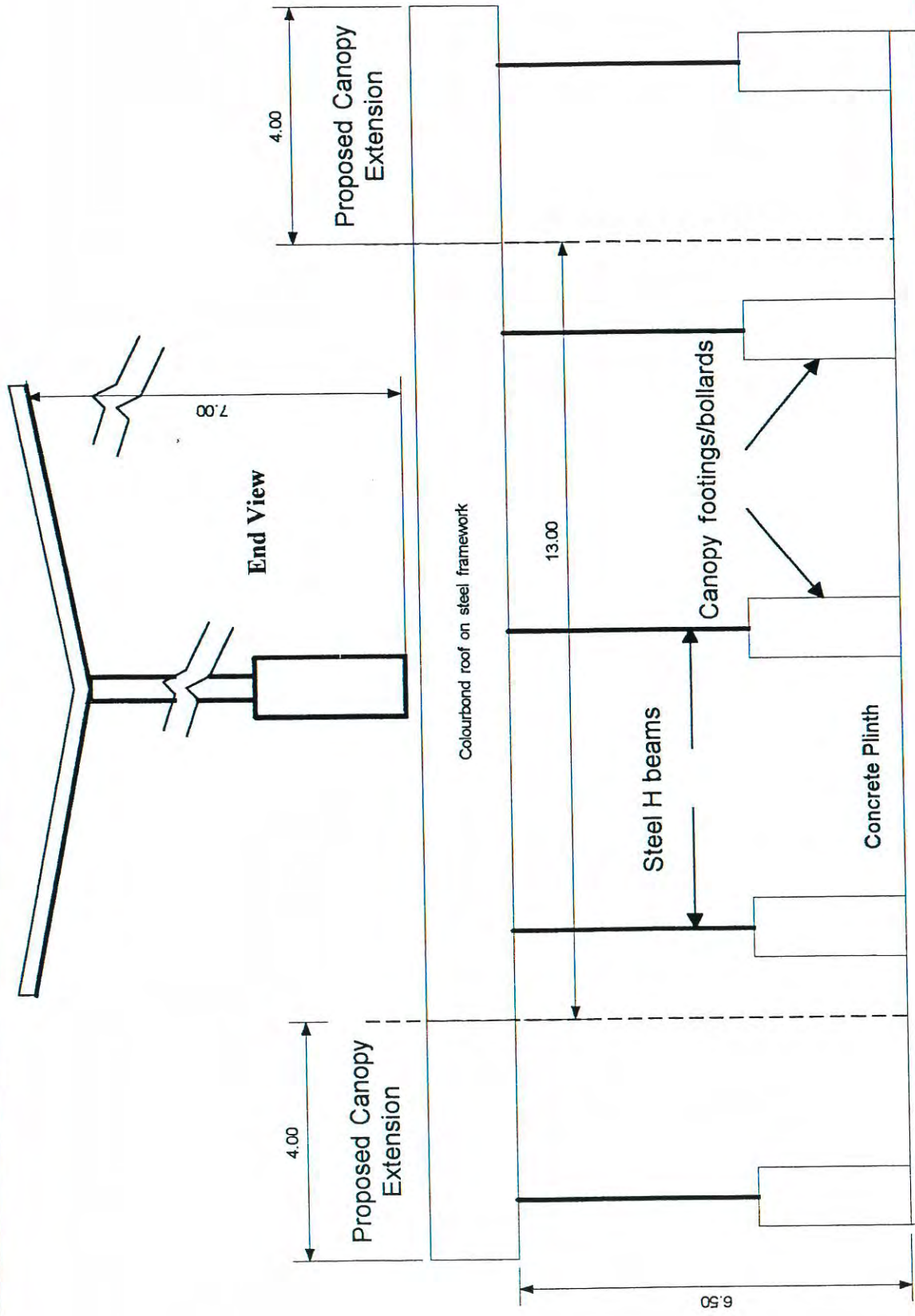
Plan View
Scale 1:100



TITLE Pioneer Concrete (NSW) Pty Ltd			
DESCRIPTION Wallgrove Fuel Facility - Slab details		DRAWN BY Barry Bone'	
DATE 24/11/97	SCALE 1:100 / 1:50	PAGE 4	of 6



TITLE:	Depot 1 - Above Ground Diesel Tank - Under pump Pressure Regulator Valve				
COMPANY:	Pioneer Concrete NSW P/L.	CREATOR :	Craig Bone'		
DATE:	12/19/97	TIME :	18:01	PG	5 OF 6 PGS



Side View

TITLE		Pioneer Concrete NSW Pty Ltd	
DESCRIPTION		DRAWN BY Barry Bone	
Wallgrove Fuel Facility - Canopy Extension		PAGE 6 of 6	
DATE	24/11/97	SCALE	1:100

Reference



APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: Please renew licence number 35/012865 to 1997. I confirm that all the licence details shown below are correct (amend if necessary).

.....
(Signature)
for: PIONEER CONCRETE (NSW) P/L

MARTIN MENDE
(Please print name)

17.10.96
(Date signed)

THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

WorkCover New South Wales
Dangerous Goods Licensing Section (Level 3)
Locked Bag 10
P O CLARENCE STREET 2000

Details of licence on 14 October 1996

Licence Number 35/012865 Expiry Date 30/11/96

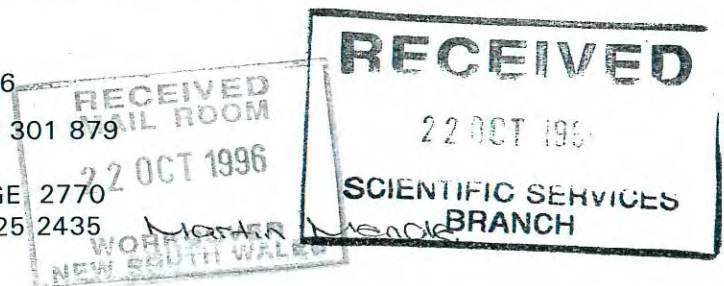
Licensee PIONEER CONCRETE (NSW) P/L ACN 000 301 879

Postal Address BOX V42 P O, MOUNT DRUITT VILLAGE 2770

Licensee Contact ~~Greg Leghissa~~ Ph. 625 5946 Fax. 625 2435

Premises Licensed to Keep Dangerous Goods

OLD WALLGROVE RD
EASTERN CREEK 2766



Nature of Site CONSTRUCTION MATERIALS NEC - Mining Major Supplier of Dangerous Goods VARIOUS

Emergency Contact for this Site Bob Graham/Martin Mende ph. 625 5946

Site staffing 24 hrs 7 days

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	MAGAZINE	Class 1.1d UN 0241 EXPLOSIVES BLASTING TY UN 0042 BOOSTERS	4000 kg 1000 kg 200 No.
2	MAGAZINE	Class 1.1b UN 0360 DETONATOR ASSEMBLIES, UN 0029 DETONATORS, NON-ELECTR	1100 No. 400 No. 300 No.
3	UNDERGROUND TANK	Class 3 UN 1203 PETROL	15000 L 14700 L
4	UNDERGROUND TANK	Class 3 UN 1203 PETROL	15000 L 14000 L



WORKCOVER AUTHORITY



LICENCE TO KEEP DANGEROUS GOODS

(Dangerous Goods Act 1975)

Application for ~~new licence~~, amendment ~~or transfer~~

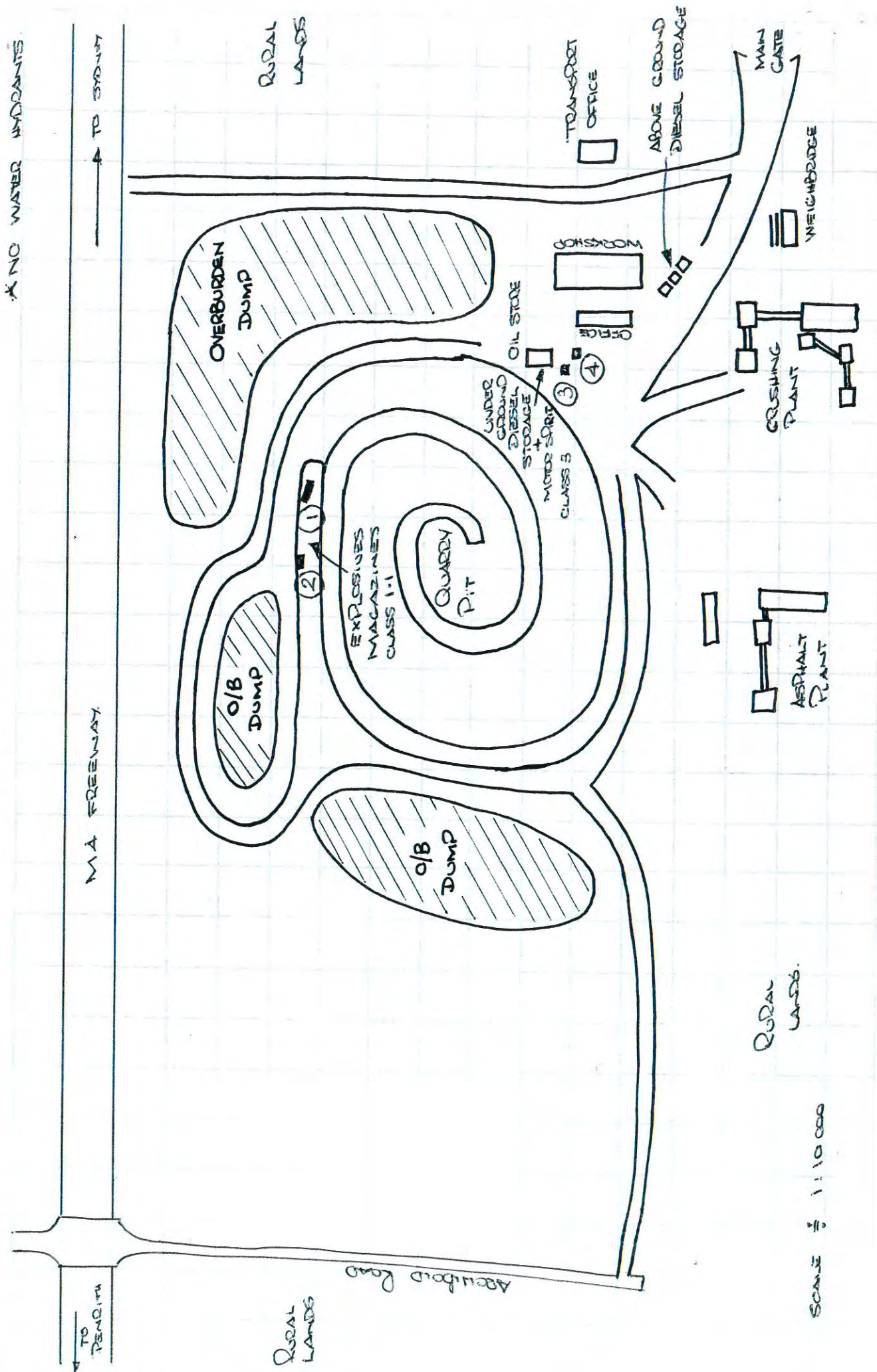
1. Name of applicant		ACN
PIONEER CONCRETE (NSW) PTY LTD		000-301-879
2. Site to be licensed		
No	Street	
None	OLD WANGRIDGE RD	
Suburb/Town		Postcode
EASTERN CREEK		2710
3. Previous licence number (if known)		35/012865
4. Nature of site		HARD ROCK QUARRY & CRUSHING PLANT
5. Emergency contact on site:		
Phone	Name	
(02) 625 5916	BOB GRAMM	MARTIN MENDE
6. Site staffing:	Hours per day	Days per week
+ SECURITY	24	7
7. Major supplier of dangerous goods		ICI + AMCOL LTD
8. If new site or significant modification		
Plan stamped by:	Accredited consultant's name:	Date stamped
N/A	N/A	N/A
9. Number of dangerous goods depots at site		4
10. Trading name or occupier's name		PIONEER CONCRETE (NSW) PTY LTD
11. Postal address of applicant		Suburb/Town Postcode
PO Box 142		MT DORT VILLAGE 2710
12. Contact for licence enquiries:		
Phone	Fax	Name
(02) 625 5916	(02) 625 2435	MARTIN MENDE
I certify that the details contained in this application (or the accompanying computer disk) are true and correct		
13. Signature of applicant		Date
		23-10-95

Please complete attached site sketch, depot listing and check sheet (if required) and return to WorkCover Authority in envelope provided.

31 OCT 1995
Form DG1

Site Sketch

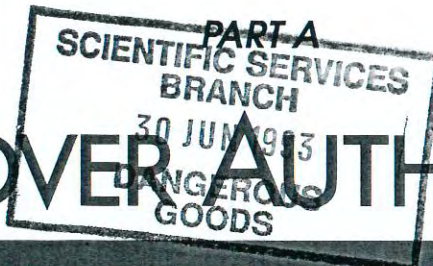
Please carefully read the instructions in Part B of the guide before sketching the site.



Depot number	Type of depot	Class			Licensed maximum storage capacity
2	EXPLOSIVE MAGAZINE	1.1			1100 UNITS

UN number	Shipping name	Pkg. Class	Group	EPG	Product or common name	Typical quantity	Unit eg. L, kg, m³
0260	Detonator Assemblies non-electric	1.1B	~1A	~1A	Remnants TRUNK LINE DELAYS	200	UNITS.
0260	" "	1.1B	~1A	~1A	Remnants	200	UNITS.
0029	Detonators non-electric	1.1B	~1A	~1A	No 8 Detonators	300	UNITS

[illegible]



WORKCOVER AUTHORITY

LICENCE TO KEEP DANGEROUS GOODS

(Dangerous Goods Act 1975)

Application for new licence, amendment or transfer

1. Name of applicant	ACN	
PIONEER CONCRETE (NSW) PTY. LTD.		000-301-879
2. Site to be licensed		
No	Street	
NONE	OLD WALLGROVE ROAD.	
Suburb/Town		Postcode
EASTERN CREEK		2770
3. Previous licence number (if known)	35/012865	
4. Nature of site	HARD ROCK QUARRY + CRUSHING PLANT. * 1404	
5. Emergency contact on site:		
Phone	Name	
(02) 625 5946	BOB CRAWHAM / GREG LEHISSA.	
6. Site staffing:	Hours per day	Days per week
+SECURITY.	24	7
7. Major supplier of dangerous goods	ICI + AMPOL LTD.	
8. If new site or significant modification		
Plan stamped by:	Accredited consultant's name:	Date stamped
	N/A	28 JUL 1993 N/A.
9. Number of dangerous goods depots at site	6	
10. Trading name or occupier's name	PIONEER CONCRETE (NSW) PTY. LTD.	
11. Postal address of applicant	Suburb/Town	Postcode
P.O. BOX V42	MT DROTT VILLAGE	2770
12. Contact for licence enquiries:		
Phone	Fax	Name
(02) 625 5946	(02) 625 2435	GREG LEHISSA.
I certify that the details contained in this application (or the accompanying computer disk) are true and correct		
13. Signature of applicant	Date	23/6/93

Please complete attached site sketch, depot listing and check sheet
(if required) and return to WorkCover Authority in envelope provided.

Sent NT 28/6/93.