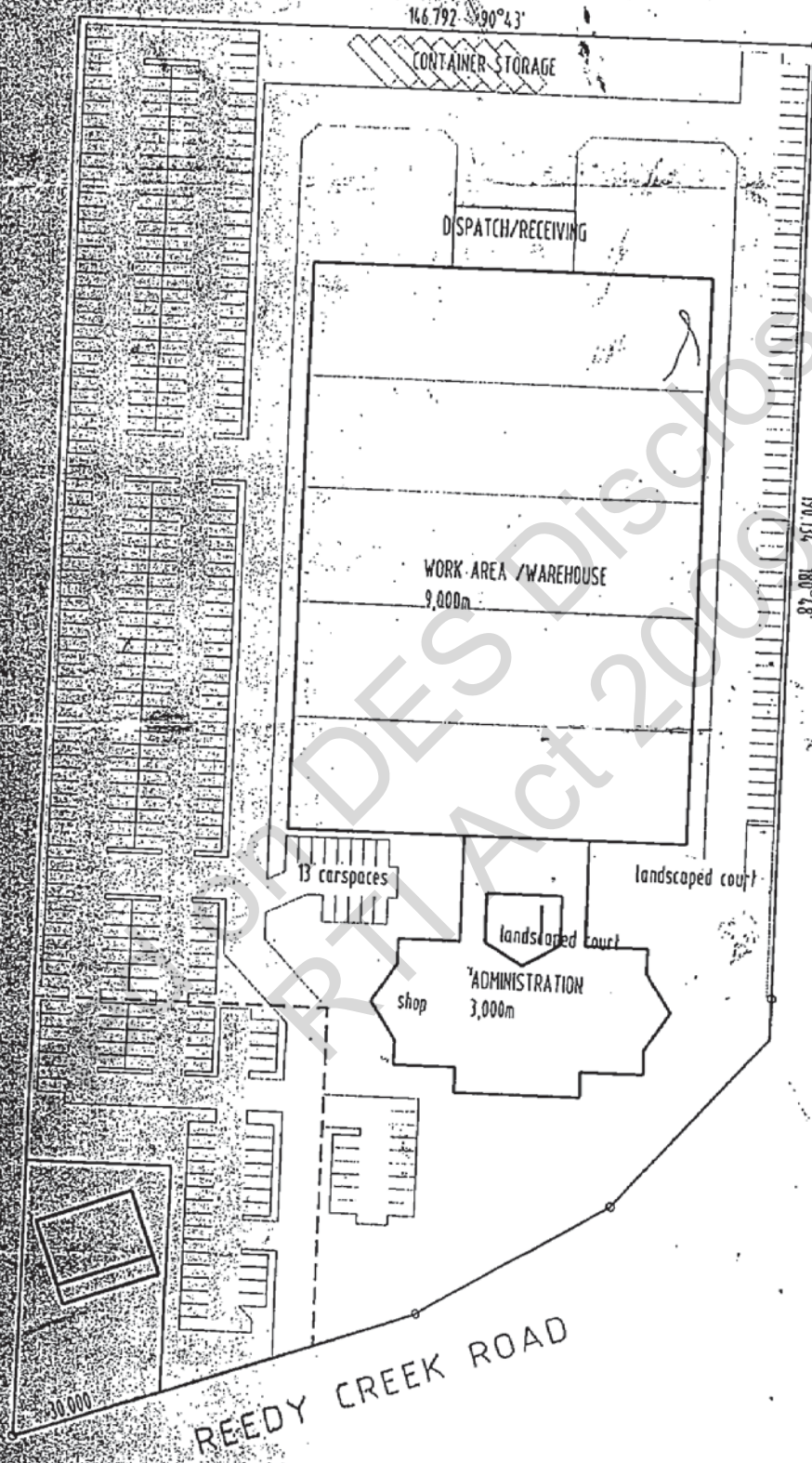


Appendix B
Proposed Redevelopment

Published on DES Disclosure Log
RTI Act 2009

Rele



SITE PLAN
Scale 1:1000



Released

Appendix C
Laboratory Test Results

Published on DES Disclosure Log
RTI Act 2009

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ANALYTICAL REPORT

PAGE 1 of 1

CONTACT: CTPI 49-Sch4
CLIENT: IMEMS PTY LTD
ADDRESS: CTPI 49-Sch4

NORTHGATE QLD 4013

LABORATORY: ENV BRISBANE
BATCH NUMBER: EB12376
SUB BATCH: 0
No. OF SAMPLES: 1
DATE RECEIVED: 16/12/97
DATE COMPLETED: 05/01/98

ORDER No.: PIONEER SITE SAMPLE TYPE: SOIL PROJECT:

COMP 1-5

Composite 1-5

Method	Analysis description	Units	LOR	
EA-055	Moisture Content (dried @ 103°C)	%	0.1	9.3
E 105T	Arsenic - Total	ng/kg	1	6
	Cadmium - Total	ng/kg	1	<1
	Cobalt - Total	ng/kg	1	7
	Chromium - Total	ng/kg	1	15
	Copper - Total	ng/kg	1	15
	Nickel - Total	ng/kg	1	9
	Lead - Total	ng/kg	1	10
	Zinc - Total	ng/kg	1	40
EW J35T	Mercury - Total	ng/kg	0.1	<0.1

COMMENTS:

Samples as received digested by USEPA method 3051 prior to the determination of metals. Results reported on a dry weight basis.

CTPI 49-Sch4

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• Results are confidential.

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CONTACT: CTPI 49-Sch4
 CLIENT: IMEMS PTY LTD
 ADDRESS: CTPI 49-Sch4
 NORTHGATE QLD 4013

LABORATORY: ENV BRISBANE
 BATCH NUMBER: EB12376
 SUB BATCH: 0
 No. OF SAMPLES: 1
 DATE RECEIVED: 16/12/97
 DATE COMPLETED: 05/01/98

ORDER No.: PIONEER SITE SAMPLE TYPE: QUALITY CONTROL PROJECT:

Method	Analysis description	Units	LOR	BLANK	COMP 1-5 %SPK REC	COMP 1-5 CHK
Report Sample #					Composite	1-5
EA-055	Moisture Content (dried @ 103°C)	%	0.1	---	---	9.3
005T	Arsenic - Total	ng/kg	1	<1	97.0 %	5
	Cadmium - Total	ng/kg	1	<1	99.0 %	<1
	Cobalt - Total	ng/kg	1	<1	99.0 %	7
	Chromium - Total	ng/kg	1	<1	95.0 %	11
	Copper - Total	ng/kg	1	<1	96.0 %	15
	Nickel - Total	ng/kg	1	<1	94.0 %	9
	Lead - Total	ng/kg	1	<1	98.0 %	10
	Zinc - Total	ng/kg	1	<1	101 %	44
EA-035T	Mercury - Total	ng/kg	0.1	<0.1	101 %	<0.1

COMMENTS:

Results which appear on this report are for laboratory QUALITY CONTROL purposes.

CTPI 49-Sch4

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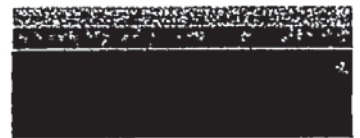
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CONTACT: CTPI 49-Sch4
CLIENT: IMEMS PTY LTD
ADDRESS: CTPI 49-Sch4
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LABORATORY: ENV BRISBANE
BATCH NUMBER: EB12376
SUB BATCH: 1
No. OF SAMPLES: 1
DATE RECEIVED: 16/12/97
DATE COMPLETED: 05/01/98

ORDER No.: PIONEER SITE SAMPLE TYPE: WATER PROJECT:

Method	Analysis description	Units	LOR	COMP 1,2
Report Sample # 1,2				
EG-005F	Cadmium - Filtered	ng/L	0.005	0.010
	Cobalt - Filtered	ng/L	0.01	<0.01
	Chromium - Filtered	ng/L	0.01	0.06
	Copper - Filtered	ng/L	0.01	0.07
	Nickel - Filtered	ng/L	0.01	0.02
	Zinc - Filtered	ng/L	0.01	0.39
EG-020F	Arsenic - Filtered	ng/L	0.001	0.008
	Lead - Filtered	ng/L	0.001	0.042
035F	Mercury - Filtered	ng/L	0.0005	<0.0005

COMMENTS:

CTPI 49-Sch4

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ANALYTICAL REPORT

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CONTACT: CTPI 49-Sch4
CLIENT: IMEMS PTY LTD
ADDRESS: CTPI 49-Sch4
NORTHGATE QLD 4013

LABORATORY: ENV BRISBANE
BATCH NUMBER: EB12376
SUB BATCH: 1
No. OF SAMPLES: 16/12/97
DATE RECEIVED: 05/01/98
DATE COMPLETED:

ORDER No.: PIONEER SITE SAMPLE TYPE: QUALITY CONTROL PROJECT:

Method	Analysis description	Units	LOR	BLANK	COMP 1,2 %SPK REC	COMP 1,2 CHK
Report Sample #				Composite 1, 2		
EG-005F	Cadmium - Filtered	ng/L	0.005	<0.005	94.0 %	0.010
	Cobalt - Filtered	ng/L	0.01	<0.01	100 %	<0.01
	Chromium - Filtered	ng/L	0.01	<0.01	99.0 %	0.04
	Copper - Filtered	ng/L	0.01	<0.01	96.0 %	0.06
	Nickel - Filtered	ng/L	0.01	<0.01	100 %	0.02
	Zinc - Filtered	ng/L	0.01	<0.01	106 %	0.38
EG-020F	Arsenic - Filtered	ng/L	0.001	<0.001	103 %	0.008
	Lead - Filtered	ng/L	0.001	<0.001	112 %	0.042
035F	Mercury - Filtered	ng/L	0.0005	<0.0005	107 %	<0.0005

COMMENTS:

Results which appear on this report are for laboratory
QUALITY CONTROL purposes.

CTPI 49-Sch4

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• Results apply to sample(s) as submitted by client.

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ANALYTICAL REPORT

PAGE 1 of 1

CONTACT: CTPI 49-Sch4
 CLIENT: IMEMS PTY LTD
 ADDRESS: CTPI 49-Sch4
 NORTHGATE QLD 4013

LABORATORY: ENV BRISBANE
 BATCH NUMBER: EB12376
 SUB BATCH: 2
 No. OF SAMPLES: 1
 DATE RECEIVED: 16/12/97
 DATE COMPLETED: 05/01/98

ORDER No.: PIONEER SITE SAMPLE TYPE: SOIL PROJECT:

Method Analysis description Units LOR
 Report sample # Composite 1-5

EA-055	Moisture Content (dried @ 103°C)	%	0.1	9.3
D68A-SS	ORGANOCHLORINE PESTICIDES			
	alpha-BHC	ng/kg	0.05	<0.05
	HCB	ng/kg	0.05	<0.05
	beta-BHC & gamma-BHC	ng/kg	0.1	<0.1
	delta-BHC	ng/kg	0.05	<0.05
	Heptachlor	ng/kg	0.05	<0.05
	Aldrin	ng/kg	0.05	<0.05
	Heptachlor epoxide	ng/kg	0.05	<0.05
	Chlordane - trans	ng/kg	0.05	<0.05
	Endosulfan 1	ng/kg	0.05	<0.05
	Chlordane - cis	ng/kg	0.05	<0.05
	Dieldrin	ng/kg	0.05	<0.05
	DDE	ng/kg	0.05	<0.05
	Endrin	ng/kg	0.05	<0.05
	Endosulfan 2	ng/kg	0.05	<0.05
	DDD	ng/kg	0.05	<0.05
	Endrin aldehyde	ng/kg	0.05	<0.05
	Endosulfan sulfate	ng/kg	0.05	<0.05
	DDT	ng/kg	0.2	<0.2
	Endrin ketone	ng/kg	0.05	<0.05
	Methoxychlor	ng/kg	0.2	<0.2
D68S-SS	ORGANOCHLORINE PESTICIDE SURROGATE			
	Dibromo-DDE	%	1	112

COMMENTS:

CTPI 49-Sch4

Samples analysed on an as received basis. Results reported on a dry weight basis.

This is the Final Report which supersedes any preliminary reports with this batch number.

• Results apply to sample(s) as submitted by client.

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CONTACT: CTPI 49-Sch4
 CLIENT: IMEMS PTY LTD

ADDRESS: CTPI 49-Sch4
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LABORATORY: ENV BRISBANE
 BATCH NUMBER: EB12376
 SUB BATCH: 3
 No. OF SAMPLES: 1
 DATE RECEIVED: 16/12/97
 DATE COMPLETED: 05/01/98

ORDER No.: PIONEER SITE SAMPLE TYPE: SOIL PROJECT:

Method	Analysis description	Units	LOR	COMP 1-5
Report	Sample #		Composite 1-5	
055	Moisture Content (dried @ 103°C)	%	0.1	9.3
075B-SS	POLYNUCLEAR AROMATICS			
	Naphthalene	ng/kg	0.5	<0.5
	2-Methylnaphthalene	ng/kg	0.5	<0.5
	2-Chloronaphthalene	ng/kg	0.5	<0.5
	Acenaphthylene	ng/kg	0.5	<0.5
	Acenaphthene	ng/kg	0.5	<0.5
	Fluorene	ng/kg	0.5	<0.5
	Phenanthrene	ng/kg	0.5	<0.5
	Anthracene	ng/kg	0.5	<0.5
	Fluoranthene	ng/kg	0.5	<0.5
	Pyrene	ng/kg	0.5	<0.5
	N-2-Fluorenylacetanide	ng/kg	0.5	<0.5
	Benz(a)anthracene	ng/kg	0.5	<0.5
	Chrysene	ng/kg	0.5	<0.5
	Benzo(b) & (k)fluoranthene	ng/kg	1	<1
	7,12-Dimethylbenz(a)anthracene	ng/kg	0.5	<0.5
	Benzo(a)pyrene	ng/kg	0.5	<0.5
	3-Methylcholanthrene	ng/kg	0.5	<0.5
	Indeno(1,2,3-cd)pyrene	ng/kg	0.5	<0.5
	Dibenz(a,h)anthracene	ng/kg	0.5	<0.5
	Benzo(g,h,i)perylene	ng/kg	0.5	<0.5
075T-SS	BASE/NEUTRAL EXTRACTABLE SURROGATES			
	Nitrobenzene-D5	%	1	101
	1,2-Dichlorobenzene-D4	%	1	63
	2-Fluorobiphenyl	%	1	98
	Anthracene-d10	%	1	104
	p-Terphenyl-D14	%	1	95

COMMENTS:

Samples analysed on an as received basis. Results reported on a dry weight basis.

CTPI 49-Sch4

This is the Final Report which supersedes any preliminary reports with this batch number.

Results apply to sample(s) as submitted by client.

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ANALYTICAL REPORT

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CONTACT: CTPI 49-Sch4
CLIENT: IMEMS PTY LTD
ADDRESS: CTPI 49-Sch4

NORTHGATE QLD 4013

LABORATORY: ENV BRISBANE
BATCH NUMBER: EB12376
SUB BATCH: 4
No. OF SAMPLES: 2
DATE RECEIVED: 16/12/97
DATE COMPLETED: 05/01/98

ORDER No.: PIONEER SITE

SAMPLE TYPE: SOIL

PROJECT:

Method	Analysis description	Units	LOR	COMP 1-3	COMP 4-5
Report sample #			Composites: 1-3		4-5
71-SS	Moisture Content (dried @ 103°C)	%	0.1	10.4	7.4
	TOTAL PETROLEUM HYDROCARBONS				
	C6 - C9 Fraction	mg/kg	2	<2	<2
	C10 - C14 Fraction	mg/kg	50	<50	54
	C15 - C28 Fraction	mg/kg	100	<100	820
	C29 - C36 Fraction	mg/kg	100	106	957
EP-080S-SS	VOLATILE TPH/BTEX COMPOUND SURROGATES				
	1,2-Dichloroethane-D4	%	1	91	89
	Toluene-D8	%	1	91	92
	4-Bromofluorobenzene	%	1	93	99

CTPI 49-Sch4

Comments: Samples analysed on an as received basis. Results reported on a dry weight basis.

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• Results apply to sample(s) as submitted by client.

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ANALYTICAL REPORT

PAGE 1 of 1

CONTACT: CTPI 49-Sch4
CLIENT: IMEMS PTY LTD
ADDRESS: CTPI 49-Sch4
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LABORATORY: ENV BRISBANE
BATCH NUMBER: EB12376
SUB BATCH: 5
No. OF SAMPLES: 1
DATE RECEIVED: 16/12/97
DATE COMPLETED: 05/01/98

ORDER No.: PIONEER SITE SAMPLE TYPE: WATER PROJECT:

Method	Analysis description	Units	LOR	COMP 1,2
Report sample #				Composite of 1,2
ED-068A-WS	ORGANOCHLORINE PESTICIDES			
	alpha-BHC	ug/L	0.5	<1.7
	HCB	ug/L	0.5	<1.7
	beta-BHC & gamma-BHC	ug/L	1	<3
	delta-BHC	ug/L	0.5	<1.7
	Heptachlor	ug/L	0.5	<1.7
	Aldrin	ug/L	0.5	<1.7
	Heptachlor epoxide	ug/L	0.5	<1.7
	Chlordane - trans	ug/L	0.5	<1.7
	Endosulfan 1	ug/L	0.5	<1.7
	Chlordane - cis	ug/L	0.5	<1.7
	Dieldrin	ug/L	0.5	<1.7
	DDE	ug/L	0.5	<1.7
	Endrin	ug/L	0.5	<1.7
	Endosulfan 2	ug/L	0.5	<1.7
	DDD	ug/L	0.5	<1.7
	Endrin aldehyde	ug/L	0.5	<1.7
	Endosulfan sulfate	ug/L	0.5	<1.7
	DDT	ug/L	2	<7
	Endrin ketone	ug/L	0.5	<1.7
	Methoxychlor	ug/L	2	<7
068S-WS	ORGANOCHLORINE PESTICIDE SURROGATE			
	Dibromo-DDE	%	1	85

COMMENTS:

CTPI 49-Sch4

Particular samples required dilution prior to extraction due to matrix interferences. LOR values have been adjusted accordingly.

This is the Final Report which supersedes any preliminary reports with this batch number.

• Results apply to sample(s) as submitted by client.

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ANALYTICAL REPORT

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CONTACT: CTPI 49-Sch4
CLIENT: IMEMS PTY LTD

ADDRESS: CTPI 49-Sch4
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LABORATORY: ENV BRISBANE
BATCH NUMBER: EB12376
SUB BATCH: 6
No. OF SAMPLES: 1
DATE RECEIVED: 16/12/97
DATE COMPLETED: 05/01/98

ORDER No.: PIONEER SITE

SAMPLE TYPE: WATER

PROJECT:

Method Analysis description Units LOR
Report Sample # Composite 1,2

EP-075B-WS POLYNUCLEAR AROMATICS

Naphthalene	ug/L	2	<3
2-Methylnaphthalene	ug/L	2	<3
2-Chloronaphthalene	ug/L	2	<3
Acenaphthylene	ug/L	2	<3
Acenaphthene	ug/L	2	<3
Fluorene	ug/L	2	<3
Phenanthrene	ug/L	2	<3
Anthracene	ug/L	2	<3
Fluoranthene	ug/L	2	<3
Pyrene	ug/L	2	<3
N-2-Fluorenylacetamide	ug/L	2	<3
Benz(a)anthracene	ug/L	2	<3
Chrysene	ug/L	2	<3
Benzo(b) & (k)fluoranthene	ug/L	4	<7
7,12-Dimethylbenz(a)anthracene	ug/L	2	<3
Benzo(a)pyrene	ug/L	2	<3
3-Methylcholanthrene	ug/L	2	<3
Indeno(1,2,3-cd)pyrene	ug/L	2	<3
Dibenz(a,h)anthracene	ug/L	2	<3
Benzo(g,h,i)perylene	ug/L	2	<3

75T-WS BASE/NEUTRAL EXTRACTABLE SURROGATES

Nitrobenzene-D5	%	1	66
1,2-Dichlorobenzene-D4	%	1	45
2-Fluorobiphenyl	%	1	55
Anthracene-d10	%	1	60
p-Terphenyl-D14	%	1	70

REMARKS:

CTPI 49-Sch4

Insufficient sample has been provided for standard analysis. Where applicable LOR values have been adjusted accordingly.

This is the Final Report which supersedes any preliminary reports with this batch number.

• Results apply to sample(s) as submitted by client.

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CONTACT: CTPI 49-Sch4
CLIENT: IMEMS PTY LTD
ADDRESS: CTPI 49-Sch4

NORTHGATE QLD 4013

LABORATORY: ENV BRISBANE
BATCH NUMBER: EB12376
SUB BATCH: 7
No. OF SAMPLES: 1
DATE RECEIVED: 16/12/97
DATE COMPLETED: 05/01/98

ORDER No.: PIONEER SITE

SAMPLE TYPE: WATER

PROJECT:

Method	Analysis description	Units	LOR	COMP 1,2
Report sample #				Composite 1,2

ED-071-WS	TOTAL PETROLEUM HYDROCARBONS			
	C6 - C9 Fraction	ug/L	20	<20
	C10 - C14 Fraction	ug/L	50	<150
	C15 - C28 Fraction	ug/L	100	518
	C29 - C36 Fraction	ug/L	50	285
080S-WS	VOLATILE TPH/BTEX COMPOUND SURROGATES			
	1,2-Dichloroethane-D4	%	1	100
	Toluene-D8	%	1	99
	4-Bromofluorobenzene	%	1	99

COMMENTS:

CTPI 49-Sch4

Insufficient sample has been provided for standard analysis. Where applicable LOR values have been adjusted accordingly.

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• Results apply to sample(s) as submitted by client.

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ORGANICS QUALITY CONTROL REPORT

BATCH No. : EB12376

DATE BATCH RECEIVED : 18/12/97

CLIENT : IMEMS

DATE BATCH COMPLETED : 31/12/97

Method Code	Test	Matrix	Method Reference		QC Lot Number	Date Samples Extracted	Date Samples Analysed
			Extraction	Analysis			
EP-068	Pesticides	Soil	Tumbler	USEPA 8270B	OCOPS598	23/12/97	23/12/97
		Water	USEPA 3510B	USEPA 8270B	OCOPW176	22/12/97	23/12/97
EP-071	TPH-Volatile	Soil	USEPA 5030 A	USEPA 8260A	VOCS1859	22/12/97	24/12/97
		Water	USEPA 5030 A	USEPA 8260A	VOCW485	N/A	21/12/97
	-Semivolatile	Soil	Tumbler	USEPA 8015A	TPHT1798	23/12/97	23/12/97
		Water	USEPA 3510B	USEPA 8015A	TPHW460	22/12/97	23/12/97
EP-075	Semivolatile Scan	Soil	Tumbler	USEPA 8270B	SVOCS575	23/12/97	24/12/97
		Water	USEPA 3510B	USEPA 8270B	SVOCW289	22/12/97	24/12/97

CTP

BATCH QUALITY CONTROL

ALS EP-068 : PESTICIDES

QC LOT No. : OCOPS598

ANALYST: CTPI 49-Sch4

MATRIX: Soil

COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Conc	DCS Conc	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	Low	High	%
EP-068A : ORGANOCHEMICAL PESTICIDES									
a-BHC	<LOR	0.25	0.24	0.22	92	6	76	109	20
HCB	<LOR	0.25	0.23	0.22	89	5	79	107	20
b- & g-BHC	<LOR	0.50	0.49	0.46	94	6	81	112	20
d-BHC	<LOR	0.25	0.23	0.25	96	9	77	106	20
Heptachlor	<LOR	0.25	0.22	0.25	94	12	81	109	20
Aldrin	<LOR	0.25	0.23	0.26	98	9	76	104	20
Heptachlor epoxide	<LOR	0.25	0.23	0.25	96	8	81	103	20
trans-Chlordane	<LOR	0.25	0.23	0.25	97	8	74	116	20
Endosulfan 1	<LOR	0.25	0.24	0.25	97	6	73	111	20
cis-Chlordane	<LOR	0.25	0.23	0.23	93	0	64	128	20
Dieldrin	<LOR	0.25	0.23	0.21	89	11	78	102	20
DDE	<LOR	0.25	0.24	0.26	99	6	83	102	20
Endrin	<LOR	0.25	0.22	0.22	89	0	77	106	20
Endosulfan 2	<LOR	0.25	0.23	0.25	97	9	76	106	20
DDD	<LOR	0.25	0.24	0.24	96	1	79	103	20
Endrin aldehyde	<LOR	0.25	0.25	0.24	97	4	69	105	20
Endosulfan sulfate	<LOR	0.25	0.23	0.22	90	4	77	106	20
DDT	<LOR	0.25	0.22	0.24	92	6	68	117	20
Endrin ketone	<LOR	0.25	0.23	0.21	88	7	74	113	20
Methoxychlor	<LOR	0.25	0.22	0.23	88	4	73	111	20
EP-068B : ORGANOPHOSPHORUS PESTICIDES									
Dichlorvos	<LOR	0.25	0.25	0.22	95	13	63	117	20
Demeton-s-methyl	<LOR	0.25	0.21	0.20	82	3	0	145	20
Monocrotophos	<LOR	0.25	0.24	0.21	90	10	72	117	20
Dimethoate	<LOR	0.25	0.25	0.24	98	5	79	108	20
Diazinon	<LOR	0.25	0.23	0.23	91	2	71	106	20
Chlorpyrifos methyl	<LOR	0.25	0.23	0.24	93	6	78	107	20
Parathion methyl	<LOR	0.25	0.22	0.23	89	8	71	107	20
Malathion	<LOR	0.25	0.24	0.26	100	6	78	105	20
Fenthion	<LOR	0.25	0.23	0.23	93	2	74	104	20
Chlorpyrifos	<LOR	0.25	0.24	0.25	96	4	82	101	20
Parathion	<LOR	0.25	0.22	0.22	88	0	74	105	20
Pirimiphos ethyl	<LOR	0.25	0.23	0.24	95	5	75	106	20
Chlorfenvinphos E	<LOR	0.25	N/A	N/A	N/A				
Chlorfenvinphos Z	<LOR	0.25	0.23	0.24	95	5	75	107	20
Bromophos ethyl	<LOR	0.25	0.23	0.26	99	11	79	107	20
Fenamiphos	<LOR	0.25	0.23	0.25	95	8	67	107	20
Prothiofos	<LOR	0.25	0.23	0.25	97	7	80	104	20
Ethion	<LOR	0.25	0.24	0.25	99	1	75	110	20
Carbofenthion	<LOR	0.25	0.23	0.25	96	11	70	116	20
Azinphos methyl	<LOR	0.25	0.22	0.22	88	2	56	122	20
EP-068C : TRIAZINE PESTICIDES									
Simazine	<LOR	0.25	0.24	0.22	94	8	45	129	20
Atrazine	<LOR	0.25	0.24	0.22	91	9	69	112	20
EP-068D : SYNTHETIC PYRETHROIDS									
Cypermethrins	<LOR	0.25	0.24	0.23	95	5	70	113	20

COMMENTS:

- 1) The control limits are based on ALS laboratory statistical data. (Method QWI-ORG/07)
- 2) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL

ALS EP-068 : PESTICIDES

QC LOT No. : OC-CPW176
MATRIX: Water

ANALYST: CTPI 49-Sch4

COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Conc	DCS Conc	Average Rec.	RPD	Rec.		RPD
	ug/L	ug/L	ug/L	ug/L	%	%	Low	High	%
EP-068A : ORGANIC CHLORINE PESTICIDES									
a-BHC	<LOR	5.00	4.35	4.07	84	7	78	106	20
HCB	<LOR	5.00	3.88	3.58	75 *	8	78	103	20
b- & g-BHC	<LOR	10.00	9.48	8.54	90	10	77	109	20
d-BHC	<LOR	5.00	4.67	4.34	90	7	81	106	20
Heptachlor	<LOR	5.00	4.40	3.95	84	11	82	103	20
Aldrin	<LOR	5.00	4.19	4.15	83	1	81	100	20
Heptachlor epoxide	<LOR	5.00	4.78	4.29	91	11	84	109	20
trans-Chlordane	<LOR	5.00	4.79	4.12	89	15	85	107	20
Endosulfan 1	<LOR	5.00	4.35	4.42	88	2	82	107	20
cis-Chlordane	<LOR	5.00	4.23	4.39	86	4	85	107	20
Dieldrin	<LOR	5.00	4.56	4.47	90	2	83	102	20
DDE	<LOR	5.00	4.90	4.47	94	9	84	106	20
Endrin	<LOR	5.00	4.95	4.39	93	12	78	108	20
Endosulfan 2	<LOR	5.00	4.74	4.49	92	5	84	104	20
DDD	<LOR	5.00	4.76	4.33	91	9	81	107	20
Endrin aldehyde	<LOR	5.00	4.45	4.32	88	3	79	109	20
Endosulfan sulfate	<LOR	5.00	4.65	4.42	91	5	82	108	20
DDT	<LOR	5.00	4.89	4.36	93	11	87	105	20
Endrin ketone	<LOR	5.00	4.49	4.33	88	4	87	107	20
Methoxychlor	<LOR	5.00	4.01	4.10	81	2	79	111	20
EP-068B : ORGANIC PHOSPHORUS PESTICIDES									
Dichlorvos	<LOR	5.00	5.44	5.03	105	8	74	110	20
Demeton-s-methyl	<LOR	5.00	3.69	4.28	80 *	15	81	103	20
Monocrotophos	<LOR	5.00	0.70	0.62	13 *	12	50	121	20
Dimethoate	<LOR	5.00	4.85	4.34	92	11	78	109	20
Diazinon	<LOR	5.00	4.63	4.51	91	3	79	105	20
Chlorpyrifos methyl	<LOR	5.00	4.47	4.11	86	8	85	108	20
Parathion methyl	<LOR	5.00	4.37	4.32	87	1	83	103	20
Malathion	<LOR	5.00	4.98	4.48	95	11	82	110	20
Fenthion	<LOR	5.00	4.83	4.12	90	16	81	107	20
Chlorpyrifos	<LOR	5.00	4.30	4.38	87	2	85	106	20
Parathion	<LOR	5.00	4.57	4.16	87	9	83	105	20
Pirimiphos ethyl	<LOR	5.00	4.71	4.38	91	7	74	108	20
Chlorfenvinphos E	<LOR	5.00	N/A	N/A					
Chlorfenvinphos Z	<LOR	5.00	4.41	4.36	88	1	83	110	20
Bromophos ethyl	<LOR	5.00	4.85	4.42	93	9	84	107	20
Fenamiphos	<LOR	5.00	4.45	4.09	85	8	77	115	20
Prothiofos	<LOR	5.00	5.01	4.25	93	16	85	107	20
Ethion	<LOR	5.00	4.66	4.39	91	6	82	108	20
Carbofenthion	<LOR	5.00	4.86	4.19	91	15	83	110	20
Azinphos methyl	<LOR	5.00	4.53	3.92	85	14	71	120	20
EP-068C : TRIAZINE PESTICIDES									
Simazine	<LOR	5.00	4.88	4.58	95	6	81	103	20
Atrazine	<LOR	5.00	4.66	4.28	89	9	75	108	20
EP-068D : SYNTHETIC PYRETHROIDS									
Cypermethrins	<LOR	5.00	4.68	4.56	92	3	80	116	20

COMMENTS:

- 1) The control limits are based on ALS laboratory statistical data. (Method QWI-ORG/07)
- 2) * 19% recovery, or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL

ALS EP-071 : Total Petroleum Hydrocarbons by Fractions

QC Lot No. : V_OCS1859

ANALYST: CTPI 49-Sch4

MATRIX: Soil

Volatile Components

COMPOUND	Level Of Reporting (LOR)	Blank Conc	Spike Conc	SPIKE RESULTS				Control Limits		
				SCS Conc	DCS Conc	Av. Rec.	RPD	Recovery (%)		RPD
				mg/kg	mg/kg	%	%	Low	High	%
C6-C9	2.0	<LOR	31	30	28	94	7	88	111	20
C10	2.0	<LOR	5.9	5.8	5.3	93	10	80	124	20

COMMENTS :

- 1) The control limits are based on ALS laboratory statistical data. (Method QWI-ORG/06)
- 2) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL

ALS EP-071 : Total Petroleum Hydrocarbons by Fractions

QC Lot No. : VOCW485
MATRIX: Water

ANALYST: CTPI 49-Sch4

Volatile Components

COMPOUND	Level Of Reporting (LOR)	Blank Conc	Spike Conc	SPIKE RESULTS				CONTROL LIMITS		
				SCS conc	DCS conc	Av. Rec.	RPD	Recovery (%)		RPD
	µg/L	µg/L	µg/L	µg/L	µg/L	%	%	Low	High	%
C6-C9	20	<LOR	311	297	317	99	7	92	108	20
C10	20	<LOR	59	61	66	107	8	78	124	20

COMMENTS :

- 1) The control limits are based on ALS laboratory statistical data. (Method QWI-ORG/06)
- 2) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL

ALS EP-071 : Total Petroleum Hydrocarbons by Fractions

MATRIX: Soil

ANALYST: CTPI 49-Sch4

QC LOT No.: TP-HT1798

Semivolatile Components

COMPOUND	Level Of	Blank Conc.	Spike Conc.	Spike Results				Control Limits		
	Reporting (LOR)			SCS	DCS	Av.	RPD	Recovery		RPD
	mg/kg			Conc.	Conc.	Rec.		%		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	%	Low	High	%
C11-C14	50	<LOR	100	86	101	94	16	83	115	20
C15-C28	100	<LOR	350	323	365	98	12	85	122	20
C29-C36	100	<LOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20

COMMENTS:

- 1) The control limits are based on ALS laboratory statistical data (Method QWI-ORG/07).
- 2) * : Recovery or RPD falls outside the recommended control limit.

BATCH QUALITY CONTROL

ALS EP-071 : Total Petroleum Hydrocarbons by Fractions

MATRIX: Water

ANALYST: CTPI 49-Sch4

QC LOT No.: TPHW460

Semivolatile Components

COMPOUND	Level Of Reporting (LOR)	Blank Conc.	Spike Conc.	Spike Results				Control Limits		
				SCS	DCS	Av.	RPD	Recovery		RPD
				Conc.	Conc.	Rec.		%		
	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	Low	High	%
C11-C14	50	<LOR	520	489	463	92	5	54	143	20
C15-C28	100	<LOR	1000	826	820	82	1	72	115	20
C29-C36	50	<LOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20

COMMENTS:

- 1) The control limits are based on ALS laboratory statistical data (Method QWI-ORG/07).
- 2) * : Recovery or RPD falls outside the recommended control limit.

BATCH QUALITY CONTROL

ALS EP-075 : SEMIVOLATILE SCAN

QC LOT No. : SVOC5575
MATRIX: Soil

ANALYST: CTPI 49-Sch4

COMPOUND	Blank	Spike	QC SPIKE RESULTS				Control Limits		
	Conc.	Level	SCS	DCS	Average	RPD	Recovery		RPD
	mg/kg	mg/kg	Conc	Conc	Rec.		Low	High	%
EP-075A : PHENOLS									
Phenol	<LOR	1.25	0.93	1.14	83	20	53	119	35
2-Chlorophenol	<LOR	1.25	0.87	1.09	78	22	53	120	35
2-Methylphenol	<LOR	1.25	1.00	1.10	84	9	56	117	35
4-Methylphenol	<LOR	1.25	0.97	1.23	88	24	49	129	35
2-Nitrophenol	<LOR	1.25	1.25	1.00	90	22	28	110	35
2,4-Dimethylphenol	<LOR	1.25	0.97	1.26	89	26	39	148	35
2,4-Dichlorophenol	<LOR	1.25	0.93	1.15	83	21	43	118	35
2,6-Dichlorophenol	<LOR	1.25	0.83	1.13	78	30	52	118	35
4-Chloro-3-methylphenol	<LOR	1.25	0.96	1.20	86	23	54	119	35
2,4,6-Trichlorophenol	<LOR	1.25	0.79	1.11	76	34	48	118	35
2,4,5-Trichlorophenol	<LOR	1.25	0.82	1.15	79	34	47	120	35
Pentachlorophenol	<LOR	1.25	0.70	1.11	73	46 *	26	88	35
EP-075B : POLYAROMATIC HYDROCARBONS									
Naphthalene	<LOR	1.25	0.79	1.05	74	29	54	121	35
2-Methylnaphthalene	<LOR	1.25	0.83	1.12	78	30	51	125	35
2-Chloronaphthalene	<LOR	1.25	0.85	1.15	80	31	50	120	35
Acenaphthalene	<LOR	1.25	0.87	1.17	82	29	54	118	35
Acenaphthene	<LOR	1.25	0.86	1.23	84	36 *	52	121	35
Fluorene	<LOR	1.25	0.99	1.27	90	25	54	122	35
Phenanthrene	<LOR	1.25	0.92	1.19	84	26	50	126	35
Anthracene	<LOR	1.25	0.92	1.21	85	27	51	121	35
Fluoranthrene	<LOR	1.25	0.95	1.22	87	25	51	125	35
Pyrene	<LOR	1.25	0.99	1.25	89	23	53	123	35
N-2-Fluorenylacetimide	<LOR	1.25	0.90	1.19	84	28	46	111	35
Benz(a)anthracene	<LOR	1.25	1.03	1.22	90	16	50	127	35
Chrysene	<LOR	1.25	1.06	1.19	90	12	52	130	35
Benzo(b) & (k) fluoranthene	<LOR	2.50	1.84	2.32	83	23	48	121	35
7,12-Dimethyl benz(a)amthracene	<LOR	1.25	0.56	1.50	83	91 *	31	157	35
Benzo(a)pyrene	<LOR	1.25	0.89	1.15	82	25	46	118	35
3-Methylcholanthrene	<LOR	1.25	0.91	1.16	83	24	48	115	35
Indeno(1,2,3-cd)pyrene	<LOR	1.25	0.93	1.21	86	26	46	121	35
Dibenz(a,h)anthracene	<LOR	1.25	0.95	1.20	86	24	47	123	35
Benzo(g,h,i)perylene	<LOR	1.25	0.90	1.22	85	30	47	126	35

COMMENTS :

- 1) The control limits are based on ALS laboratory statistical data (Method OWI-ORG/07).
- 2) *: Recovery or RPD falls outside the recommended limits.

BATCH QUALITY CONTROL

ALS EP-075 : SEMIVOLATILE SCAN

QC LOT No.: SVOCW289

ANALYST: CTPI 49-Sch4

MATRIX: Water

COMPOUND	Blank	Spike	QC SPIKE RESULTS				Control Limits		
	Conc	Level	SCS	DCS	Average	RPD	Recovery		RPD
	ug/L	ug/L	Conc	Conc	Rec.		Low	High	%
EP-075A : PHENOLS									
Phenol	<LOR	5.00	2.07	1.97	40	5	21	54	35
2-Chlorophenol	<LOR	5.00	3.88	3.73	76	4	52	114	35
2-Methylphenol	<LOR	5.00	3.91	3.93	78	1	50	103	35
4-Methylphenol	<LOR	5.00	3.96	3.54	75	11	44	92	35
2-Nitrophenol	<LOR	5.00	3.58	3.21	68	11	29	120	35
2,4-Dimethylphenol	<LOR	5.00	4.39	3.28	77	29	40	122	35
2,4-Dichlorophenol	<LOR	5.00	4.46	3.81	83	16	56	107	35
2,6-Dichlorophenol	<LOR	5.00	4.66	4.28	89	9	67	110	35
4-Chloro-3-methylphenol	<LOR	5.00	5.43	4.26	97	24	62	110	35
2,4,6-Trichlorophenol	<LOR	5.00	4.92	4.39	93	11	67	106	35
2,4,5-Trichlorophenol	<LOR	5.00	5.73	4.96	107 *	14	66	106	35
Pentachlorophenol	<LOR	5.00	4.40	3.15	76	33	0	103	35
EP-075B : POLYAROMATIC HYDROCARBONS									
Naphthalene	<LOR	5.00	3.42	3.55	70	4	55	106	35
2-Methylnaphthalene	<LOR	5.00	3.38	3.22	66	5	43	108	35
2-Chloronaphthalene	<LOR	5.00	4.09	3.72	78	10	59	103	35
Acenaphthalene	<LOR	5.00	4.63	4.22	88	9	55	118	35
Acenaphthene	<LOR	5.00	3.99	3.42	74	15	62	111	35
Fluorene	<LOR	5.00	4.97	4.09	91	19	67	109	35
Phenanthrene	<LOR	5.00	5.91	5.04	110	16	70	116	35
Anthracene	<LOR	5.00	5.84	4.97	108	16	70	114	35
Fluoranthrene	<LOR	5.00	5.92	5.04	110	16	72	116	35
Pyrene	<LOR	5.00	5.98	5.03	110	17	71	114	35
N-2-Fluorenylacetic acid	<LOR	5.00	5.82	4.75	106	20	47	113	35
Benz(a)anthracene	<LOR	5.00	6.11	5.16	113	17	62	124	35
Chrysene	<LOR	5.00	6.27	5.28	115	17	62	129	35
Benzo(b) & (k) fluoranthene	<LOR	10.00	11.48	9.75	106	16	67	120	35
7,12-Dimethyl benz(a)anthracene	<LOR	5.00	5.25	4.14	94	24	33	158	35
Benzo(a)pyrene	<LOR	5.00	5.50	4.65	101	17	67	115	35
3-Methylchloanthrene	<LOR	5.00	5.19	4.16	94	22	50	124	35
Indeno(1,2,3-cd)pyrene	<LOR	5.00	5.50	4.57	101	19	58	122	35
Dibenz(a,h)anthracene	<LOR	5.00	5.63	4.70	103	18	55	126	35
Benzo(g,h,i)perylene	<LOR	5.00	5.64	4.76	104	17	61	124	35
EP-075C : PHTHALATE ESTERS									
Dimethylphthalate	<LOR	5.00	5.81	4.98	108	15	73	116	35
Diethylphthalate	<LOR	5.00	5.79	4.64	104	22	71	125	35
Di-n-butylphthalate	<LOR	5.00	6.12	5.27	114	15	71	146	35
Benzyl butyl phthalate	<LOR	5.00	6.37	5.42	118	16	72	124	35
Bis(2-ethylhexyl)phthalate	<LOR	5.00	9.06	6.67	157	30	42	215	35
Di-n-octylphthalate	<LOR	5.00	5.55	4.76	103	15	64	116	35

EP-075D : NITROSAMINES									
N-Nitrosomethylethylamine	<LOR	5.00	3.14	3.22	64	3	27	101	35
N-Nitrosodiethylamine	<LOR	5.00	3.73	3.58	73	4	50	103	35
N-Nitrosopyrrolidine	<LOR	5.00	2.80	2.81	56	0	28	81	35
N-Nitrosomorpholine	<LOR	5.00	2.77	2.55	53	8	36	75	35
N-Nitrosodi-n-propylamine	<LOR	5.00	4.56	4.13	87	10	67	106	35
N-Nitrosopiperidine	<LOR	5.00	4.58	3.93	85	15	55	109	35
N-Nitrosodibutylamine	<LOR	5.00	5.04	4.47	95	12	66	106	35
Diphenylamine & N-Nitrosodiphenylamine	<LOR	10.00	11.03	9.45	102	15	73	109	35
Diallate	<LOR	5.00	5.48	4.70	102	15	69	122	35
Methapyriline	<LOR	5.00	0.23	0.25	5	8	0	67	35
EP-075E : NITROAROMATICS AND KETONES									
2-Picoline	<LOR	5.00	0.67	0.71	14	7	0	104	35
Acetophenone	<LOR	5.00	4.26	4.00	83	6	62	115	35
Nitrobenzene	<LOR	5.00	3.91	3.66	76	6	60	117	35
Isophorone	<LOR	5.00	4.69	4.17	89	12	63	119	35
2,6-Dinitrotoluene	<LOR	5.00	5.24	4.44	97	17	62	113	35
2,4-Dinitrotoluene	<LOR	5.00	5.18	4.00	92	26	54	110	35
1-Naphthalemine	<LOR	5.00	4.09	4.37	85	7	1	167	35
4-Nitroquinoline-N-oxide	<LOR	5.00	4.78	4.93	97	3	37	141	35
5-Nitro-o-toluidine	<LOR	5.00	4.71	4.96	97	5	56	134	35
Azobenzene	<LOR	5.00	5.52	4.58	101	19	70	116	35
1,3,5-Trinitrobenzene	<LOR	5.00	3.39	2.87	63	17	18	107	35
Phenacetin	<LOR	5.00	5.22	4.24	95	21	45	105	35
4-Aminobiphenyl	<LOR	5.00	5.45	4.64	101	16	69	108	35
Pentachloronitrobenzene	<LOR	5.00	6.01	4.86	109	21	68	127	35
Pronamide	<LOR	5.00	6.00	5.04	110	17	69	113	35
Dimethylaminoazobenzene	<LOR	5.00	5.77	4.99	108	14	55	108	35
Chlorobenzilate	<LOR	5.00	6.16	5.19	113	17	66	119	35
EP-075F : HALOETHERS									
Bis(2-chloroethyl)ether	<LOR	5.00	3.26	3.26	65	0	53	112	35
Bis(2-chloroethoxy)methane	<LOR	5.00	4.80	4.27	91	12	62	116	35
4-Chlorophenyl phenyl ether	<LOR	5.00	4.62	3.88	85	18	65	110	35
4-Bromophenyl phenyl ether	<LOR	5.00	5.14	4.23	94	20	67	108	35
EP-075G : CHLORINATED HYDROCARBONS									
1,3-Dichlorobenzene	<LOR	5.00	2.17	2.34	45	7	38	104	35
1,4-Dichlorobenzene	<LOR	5.00	2.26	2.46	47	8	43	103	35
1,2-Dichlorobenzene	<LOR	5.00	2.30	2.53	48	9	42	104	35
Hexachloroethane	<LOR	5.00	1.75	2.05	38	16	31	91	35
1,2,4-Trichlorobenzene	<LOR	5.00	2.43	2.47	49	1	41	98	35
Hexachloropropylene	<LOR	5.00	1.36	1.57	29	14	21	85	35
Hexachlorobutadiene	<LOR	5.00	2.01	2.21	42	9	29	97	35
Hexachlorocyclopentadiene	<LOR	5.00	0.67	0.71	14	7	0	94	35
Pentachlorobenzene	<LOR	5.00	4.01	3.36	74	18	58	109	35
Hexachlorobenzene	<LOR	5.00	5.54	4.44	100	22	19	149	35
EP-075H : ANILINES AND BENZIDINES									
Aniline	<LOR	5.00	4.90	5.00	99	2	0	237	35
4-Chloroaniline	<LOR	5.00	2.94	2.94	59	0	11	166	35
2-Nitroaniline	<LOR	5.00	5.33	4.53	99	16	56	103	35
3-Nitroaniline	<LOR	5.00	5.18	4.17	93	22	54	106	35
Dibenzofuran	<LOR	5.00	4.71	4.01	87	16	67	107	35
4-Nitroaniline	<LOR	5.00	1.14	2.91	40	88 *	35	116	35
Carbazole	<LOR	5.00	4.40	4.74	91	8	69	128	35
3,3'-Dichlorobenzidine	<LOR	5.00	0.35	0.50	8	35 *	0	162	35

EP-075I : ORGANOCHLORINE PESTICIDES

alpha-BHC	<LOR	5.00	5.39	4.36	98	21	55	123	35
beta- & gamma-BHC	<LOR	10.00	11.33	9.43	104	18	67	121	35
delta-BHC	<LOR	5.00	5.66	4.82	105	16	63	125	35
Heptachlor	<LOR	5.00	5.52	4.53	101	20	63	120	35
Aldrin	<LOR	5.00	5.86	4.66	105	23	71	120	35
Heptachlorepoxyde	<LOR	5.00	6.08	5.41	115	12	65	118	35
Endosulfan 1	<LOR	5.00	6.29	5.18	115	19	67	121	35
p,p'-DDE	<LOR	5.00	6.07	5.09	112	18	70	115	35
Dieldrin	<LOR	5.00	6.07	4.97	110	20	51	119	35
Endrin	<LOR	5.00	5.32	4.43	97	18	64	109	35
Endosulfan 2	<LOR	5.00	5.88	5.12	110	14	72	117	35
p,p'-DDD	<LOR	5.00	6.31	5.29	116	18	69	118	35
Endosulfan sulfate	<LOR	5.00	5.20	5.00	102	4	77	124	35
p,p'-DDT	<LOR	5.00	5.00	4.09	91	20	58	110	35

EP-075J : ORGANOPHOSPHORUS PESTICIDES

Methanesulfonate methyl	<LOR	5.00	1.96	2.01	40	2	26	70	35
Methanesulfonate ethyl	<LOR	5.00	3.50	3.42	69	2	49	106	35
Dichlorvos	<LOR	5.00	5.44	4.70	101	14	63	116	35
cis-Isoparale	<LOR	5.00	4.06	3.84	79	6	65	104	35
trans-Isoparale	<LOR	5.00	5.24	4.35	96	18	72	110	35
Safarole	<LOR	5.00	4.76	4.30	91	10	63	114	35
Dimethoate	<LOR	5.00	5.91	4.60	105 *	25	63	104	35
Diazinon	<LOR	5.00	5.52	5.24	108	5	64	125	35
Chlorpyrifosmethyl	<LOR	5.00	5.90	4.86	108	19	66	117	35
Malathion	<LOR	5.00	6.45	5.42	119 *	17	70	117	35
Fenthion	<LOR	5.00	6.04	5.21	113 *	15	69	111	35
Chlorpyrifos	<LOR	5.00	5.92	5.08	110	15	64	121	35
Pirimphosethyl	<LOR	5.00	5.96	5.11	111	15	62	119	35
Chlorfenvinphos-E	<LOR	5.00	N/A	N/A	N/A				
Chlorfenvinphos-Z	<LOR	5.00	5.99	4.85	108	21	63	116	35
Prothiofos	<LOR	5.00	5.87	4.98	108	16	71	118	35
Ethion	<LOR	5.00	6.27	5.27	115	17	68	118	35

COMMENTS :

- 1) The control limits are based on ALS laboratory statistical data (Method QWI-ORG/07).
- 2). * : Recovery or RPD falls outside the the recommended control limit.



IMEMS PTY LTD

Attention: CTPI 49-Sch4

Your Order:

Sample Type: WATER

Project:

Page-no: 1

ENV BRISBANE

Batch-no: 12498

Sub-batch: 0

No-samples: 2

Received: 24/12/97

Checked:

Method	Analysis description	Units	LOR	WATER 3 W OF HOLE	WATER 4
EP-071-WS	TOTAL PETROLEUM HYDROCARBONS				
EP-071-WS	C6 - C9 Fraction	ug/L	20	<20	<20
EP-071-WS	C10 - C14 Fraction	ug/L	50	115	155
EP-071-WS	C15 - C28 Fraction	ug/L	100	1560	1910
EP-071-WS	C29 - C36 Fraction	ug/L	50	630	723
EP-080S-WS	VOLATILE TPH/BTEX COMPOUND SUR				
EP-080S-WS	1,2-Dichloroethane-D4	%	1	108	113
EP-080S-WS	Toluene-D8	%	1	91	90
EP-080S-WS	4-Bromofluorobenzene	%	1	102	105

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IMEMS PTY LTD

Attention: **CTPI 49-Sch4**

Your Order:

Sample Type: SOIL

Project:

Page-no: 2

ENV BRISBANE

Batch-no: 12498

Sub-batch: 1

No-samples: 5

Received: 24/12/97

Checked:

Method	Analysis description	Units	LOR	CONC. COMPOSITE SOIL	COMPOSITE
EA-055	Moisture Content (dried @ 103' %		0.1	32.5	11.0
EP-071-SS	TOTAL PETROLEUM HYDROCARBONS				
EP-071-SS	C6 - C9 Fraction	mg/kg	2	<2	<2
EP-071-SS	C10 - C14 Fraction	mg/kg	50	1070	<50
EP-071-SS	C15 - C28 Fraction	mg/kg	100	14.0 g/kg	<100
EP-071-SS	C29 - C36 Fraction	mg/kg	100	3060	<100
EP-080-SS	BTEX				
EP-080-SS	Benzene	mg/kg	0.2	<0.2	<0.2
EP-080-SS	Toluene	mg/kg	0.2	<0.2	<0.2
EP-080-SS	Chlorobenzene	mg/kg	0.2	<0.2	<0.2
EP-080-SS	Ethylbenzene	mg/kg	0.2	<0.2	<0.2
EP-080-SS	meta- & para-Xylene	mg/kg	0.2	<0.2	<0.2
EP-080-SS	ortho-Xylene	mg/kg	0.2	<0.2	<0.2
EP-080S-SS	VOLATILE TPH/BTEX COMPOUND SUR				
EP-080S-SS	1,2-Dichloroethane-D4	%	1	80	92
EP-080S-SS	Toluene-D8	%	1	63	95
EP-080S-SS	4-Bromofluorobenzene	%	1	68	97

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IMEMS PTY LTD

Attention: CTPI 49-Sch4

Your Order:

Sample Type: SOIL

Project:

Page-no: 1
ENV BRISBANE
Batch-no: 12498
Sub-batch: 1
No-samples: 5
Received: 24/12/97
Checked:

Method	Analysis description	Units	LOR	OIL LAYER 0.5m TANK	0.5m S TYPICOL CT	0.5 EAST
EA-055	Moisture Content (dried @ 103' %		0.1	6.2	15.1	9.5
EP-071-SS	TOTAL PETROLEUM HYDROCARBONS					
EP-071-SS	C6 - C9 Fraction	mg/kg	2	<2	<2	<2
EP-071-SS	C10 - C14 Fraction	mg/kg	50	753	541	54
EP-071-SS	C15 - C28 Fraction	mg/kg	100	6260	3290	308
EP-071-SS	C29 - C36 Fraction	mg/kg	100	693	1910	152
EP-080-SS	BTEX					
EP-080-SS	Benzene	mg/kg	0.2	<0.2	<0.2	<0.2
EP-080-SS	Toluene	mg/kg	0.2	<0.2	<0.2	<0.2
EP-080-SS	Chlorobenzene	mg/kg	0.2	<0.2	<0.2	<0.2
EP-080-SS	Ethylbenzene	mg/kg	0.2	<0.2	<0.2	<0.2
EP-080-SS	meta- & para-Xylene	mg/kg	0.2	<0.2	<0.2	<0.2
EP-080-SS	ortho-Xylene	mg/kg	0.2	<0.2	<0.2	<0.2
EP-080S-SS	VOLATILE TPH/BTEX COMPOUND SUR					
EP-080S-SS	1,2-Dichloroethane-D4	%	1	90	88	87
EP-080S-SS	Toluene-D8	%	1	90	87	89
EP-080S-SS	4-Bromofluorobenzene	%	1	83	85	87

Samples analysed on an as received basis. Results reported on a dry weight basis.

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ANALYTICAL REPORT

PAGE 1 of 1

CONTACT: CTPI 49-Sch4
CLIENT: IMEMS PTY LTD
ADDRESS: CTPI 49-Sch4

NORTHGATE QLD 4013

LABORATORY: ENV BRISBANE
BATCH NUMBER: EB12564
SUB BATCH: 0
No. OF SAMPLES: 3
DATE RECEIVED: 08/01/98
DATE COMPLETED: 13/01/98

ORDER No.:

SAMPLE TYPE: SOIL

PROJECT:

Method	Analysis description	Units	LOR	PIONEER STH SDE EX	PIONEER MTH SDE EX	PIONEER EST SDE EX
Report sample #				11	12	13
EP-055	Moisture Content (dried @ 103°C)	%	0.1	1.3	12.7	5.8
EP-071-SS	TOTAL PETROLEUM HYDROCARBONS					
	C6 - C9 Fraction	ng/kg	2	<2	<2	<2
	C10 - C14 Fraction	ng/kg	50	<50	<50	<50
	C15 - C28 Fraction	ng/kg	100	<100	110	146
	C29 - C36 Fraction	ng/kg	100	<100	128	168
EP-080-SS	BTEX					
	Benzene	ng/kg	0.2	<0.2	<0.2	<0.2
	Toluene	ng/kg	0.2	<0.2	<0.2	<0.2
	Chlorobenzene	ng/kg	0.2	<0.2	<0.2	<0.2
	Ethylbenzene	ng/kg	0.2	<0.2	<0.2	<0.2
	meta- & para-Xylene	ng/kg	0.2	<0.2	<0.2	<0.2
	ortho-Xylene	ng/kg	0.2	<0.2	<0.2	<0.2
EP-080S-SS	VOLATILE TPH/BTEX COMPOUND SURROGATES					
	1,2-Dichloroethane-D4	%	1	94	90	91
	Toluene-D8	%	1	90	83	85
	4-Bromofluorobenzene	%	1	103	94	92

COMMENTS:

CTPI 49-Sch4

This is the Final Report which supersedes any preliminary reports with this batch number.

• Results apply to sample(s) as submitted by client.

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ORGANICS QUALITY CONTROL REPORT

BATCH No. : EB12564

DATE BATCH RECEIVED : 08/01/98

CLIENT : IMEMS

DATE BATCH COMPLETED : 12/01/98

Method Code	Test	Matrix	Method Reference		QC Lot Number	Date Samples Extracted	Date Samples Analysed
			Extraction	Analysis			
EP-071	TPH-Volatile	Soil	USEPA 5030 A	USEPA 8260A	VOCS187	8/1/98	8/1/98
	-Semivolatile	Soil	Tumbler	USEPA 8015A	TPHT1806	8/1/98	9/1/98

BATCH QUALITY CONTROL

ALS EP-071 : Total Petroleum Hydrocarbons by Fractions

QC Lot No. : VOCS1870

ANALYST: CTPI 49-Sch4

MATRIX: Soil

Volatile Components

COMPOUND	Level Of Reporting (LOR)	Blank Conc	Spike Conc	SPIKE RESULTS				Control Limits		
				SCS Conc	DCS Conc	Av. Rec.	RPD	Recovery (%)		RPD
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	%	Low	High	%
C6-C9	2.0	<LOR	31	32	30	100	5	89	110	20
C10	2.0	<LOR	5.9	5.9	5.3	94	11	78	123	20

COMMENTS :

- 1) The control limits are based on ALS laboratory statistical data. (Method QWI-ORG/06)
- 2) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL

ALS EP-071 : Total Petroleum Hydrocarbons by Fractions

MATRIX: Soil

ANALYST: CTPI 49-Sch4

QC LOT No.: TPHT1806

Semivolatile Components

COMPOUND	Level Of Reporting (LOR)	Blank Conc.	Spike Conc.	Spike Results				Control Limits		
				SCS Conc.	DCS Conc.	Av. Rec.	RPD	Recovery %		RPD
				mg/kg	mg/kg	%	%	Low	High	%
C11-C14	50	<LOR	100	96	97	96	2	83	115	20
C15-C28	100	<LOR	350	353	360	102	2	85	122	20
C29-C36	100	<LOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20

COMMENTS:

- 1) The control limits are based on ALS laboratory statistical data (Method QWI-ORG/07).
- 2) * : Recovery or RPD falls outside the recommended control limit.



MEMS PTY LTD

Attention: CTPI 49-Sch4

Your Order:

Sample Type: SOIL

Project:

Page-no: 1

ENV BRISBANE

Batch-no: 12632

Sub-batch: 0

No-samples: 5

Received: 13/01/98

Checked:

Method	Analysis description	Units	LOR	1a	1b	2a
EA-002	pH Value		0.1	6.8	6.6	9.1
EA-005	Moisture Content (dried @ 103° C)		0.1	14.3	13.2	9.8
EG-005T	Arsenic - Total	mg/kg	1	1	3	4
EG-005T	Cadmium - Total	mg/kg	1	<1	<1	<1
EG-005T	Cobalt - Total	mg/kg	1	2	3	4
EG-005T	Chromium - Total	mg/kg	1	12	12	7
EG-005T	Copper - Total	mg/kg	1	10	14	8
EG-005T	Nickel - Total	mg/kg	1	6	6	6
EG-005T	Lead - Total	mg/kg	1	15	13	13
EG-005T	Silver - Total	mg/kg	1	22	40	23
EG-005T	Zinc - Total	mg/kg	0.1	<0.1	<0.1	<0.1
EG-005T	Mercury - Total	mg/kg				

Samples as received digested by USEPA method 3051 prior to the determination of metals. Results reported on a dry weight basis. pH determined and reported on 1:5 soil:water extract. This report supersedes any previous preliminary reports of the same batch number.

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File A

Page 86 of 106



INEMS PTY LTD

Attention: CTPI 49-Sch4

Your Order:

Sample Type: SOIL

Project:

Page-no: 2

ENV BRISBANE

Batch-no: 12632

Sub-batch: 0

No-samples: 5

Received: 13/01/98

Checked:

Method	Analysis description	Units	LOK	2b	Composite
EA-002	pH Value		0.1	6.3	8.0
EA-055	Moisture Content (dried @ 103° C)	%	0.1	13.9	13.2
EG-005T	Arsenic - Total	mg/kg	1	<1	2
EG-005T	Cadmium - Total	mg/kg	1	<1	<1
EG-005T	Cobalt - Total	mg/kg	1	3	<1
EG-005T	Chromium - Total	mg/kg	1	9	5
EG-005T	Copper - Total	mg/kg	1	7	13
EG-005T	Nickel - Total	mg/kg	1	5	6
EG-005T	Lead - Total	mg/kg	1	13	20
EG-005T	Zinc - Total	mg/kg	1	39	52
EG-035T	Mercury - Total	mg/kg	0.1	0.1	<0.1

Published on DES Disclosure Log
RTI Act 2009

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IMEMS PTY LTD

Attention: CTPI 49-Sch4

Your Order:

Sample Type: SOIL

Project:

Page-no: 1

ENV BRISBANE

Batch-no: 12532

Sub-batch: 3

No-samples: 5

Received: 13/01/98

Checked:

Method	Analysis description	Units	LOR	1a	1b	2a
EA-055	Moisture Content (dried @ 103° C)	%	0.1	14.2	13.2	9.8
EP-075B-SS	POLYNUCLEAR AROMATICS					
EP-075B-SS	Naphthalene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	2-Methylnaphthalene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	2-Chloronaphthalene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Acenaphthylene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Acenaphthene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Fluorene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Phenanthrene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Anthracene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Fluoranthene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Pyrene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	N-2-Fluorenylacetanide	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Benz(a)anthracene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Chrysene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Benzo(b) & (k)fluoranthene	mg/kg	1	<1	<1	<1
EP-075B-SS	7,12-Dimethylbenz(a)anthracene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Benzo(a)pyrene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	3-Methylcholanthrene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Indeno(1,2,3-cd)pyrene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Dibenz(a,h)anthracene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075B-SS	Benzo(g,h,i)perylene	mg/kg	0.5	<0.5	<0.5	<0.5
EP-075T-SS	BASE/NEUTRAL EXTRACTABLE SURRO					
EP-075T-SS	Nitrobenzene-D5	%	1	84	86	73
EP-075T-SS	1,2-Dichlorobenzene-D4	%	1	71	64	46
EP-075T-SS	2-Fluorobiphenyl	%	1	88	91	75
EP-075T-SS	Anthracene-d10	%	1	96	96	86
EP-075T-SS	p-Terphenyl-D14	%	1	64	64	57

Samples analysed on an as received basis. Results reported on a dry weight basis.

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IMEMS PTY LTD

Attention: CTPI 49-Sch4

Your Order:

Sample Type: SOIL

Project:

Page-no: 2

ENV BRISBANE

Batch-no: 12632

Sub-batch: 3

No-samples: 5

Received: 13/01/98

Checked:

Method	Analysis description	Units	LOR	2b	Composite
EA-055	Moisture Content (dried @ 103° A		0.1	13.5	13.2
EP-075P-SS	POLYNUCLEAR AROMATICS				
EP-075B-SS	Naphthalene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	2-Methylnaphthalene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	2-Chloronaphthalene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Acenaphthylene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Acenaphthene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Fluorene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Phenanthrene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Anthracene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Fluoranthene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Pyrene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	N-2-Fluorenylacetamide	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Benzo(a)anthracene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Chrysene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Benzo(b) & (k)fluoranthene	mg/kg	1	<1	<1
EP-075B-SS	7,12-Dimethylbenz(a)anthracene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Benzo(a)pyrene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	3-Methylcholanthrene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Indeno(1,2,3-cd)pyrene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Dibenz(a,h)anthracene	mg/kg	0.5	<0.5	<0.5
EP-075B-SS	Benzo(g,h,i)perylene	mg/kg	0.5	<0.5	<0.5
EP-075T-SS	BASE/NEUTRAL EXTRACTABLE SURRO				
EP-075T-SS	Nitrobenzene-D5		1	65	67
EP-075T-SS	1,2-Dichlorobenzene-D4		1	69	74
EP-075T-SS	2-Fluorobiphenyl		1	29	93
EP-075T-SS	Anthracene-d10		1	96	104
EP-075T-SS	p-Terphenyl-D14		1	65	69

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Perth Laboratory
Phone (08) 245 2585
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IMEMS PTY LTD

Attention: CTPI 49-Sch4

Your Order:

Sample Type: SOIL

Project:

Page-no: 1

ENV BRISBANE

Batch-no: 12632

Sub-batch: 1

No-samples: 5

Received: 13/01/98

Checked:

Method	Analysis description	Units	LOR	1a	1b	2a
EA-055	Moisture Content (dried @ 103' °C)		0.1	14.3	13.2	9.8
EP-071-SS	TOTAL PETROLEUM HYDROCARBONS					
EP-071-SS	C6 - C9 Fraction	mg/kg	2	<2	<2	<2
EP-071-SS	C10 - C14 Fraction	mg/kg	50	<50	<50	<50
EP-071-SS	C15 - C28 Fraction	mg/kg	100	140	167	<100
EP-071-SS	C29 - C36 Fraction	mg/kg	100	159	210	<100
EP-080S-SS	VOLATILE TPH/BTEX COMPOUND SUR					
EP-080S-SS	1,2-Dichloroethane-D4	%	1	103	102	102
EP-080S-SS	Toluene-D8	%	1	99	100	99
EP-080S-SS	4-Bromofluorobenzene	%	1	91	91	91

Samples analysed on an as received basis. Results reported on a dry weight basis.

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IMEMS PTY LTD

Attention: CTPI 49-Sch4

YourOrder:

SampleType:SOIL

Project:

Page-no: 2

ENV BRISBANE

Batch-no: 12632

Sub-batch:1

No-samples:5

Received: 13/01/98

Checked:

Method	Analysis description	Units	LOI	2b	Composite
EA-055	Moisture Content (dried @ 103' %		0.1	13.9	13.2
EP-071-SS	TOTAL PETROLEUM HYDROCARBONS				
EP-071-SS	C6 - C9 Fraction	mg/kg	2	<2	<2
EP-071-SS	C10 - C14 Fraction	mg/kg	50	<50	<50
EP-071-SS	C15 - C28 Fraction	mg/kg	100	<100	471
EP-071-SS	C29 - C36 Fraction	mg/kg	100	<100	423
EP-080S-SS	VOLATILE TPH/BTEX COMPOUND SUR				
EP-080S-SS	1,2-Dichloroethane-D4	%	1	105	107
EP-080S-SS	Toluene-D8	%	1	105	102
EP-080S-SS	4-Bromofluorobenzene	%	1	98	96

AUSTRALIAN LABORATORY SERVICES P/L

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Melbourne
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Fax (03) 9853 0730

Perth Laboratory
Phone (09) 249 2988
Fax (09) 249 2942



INEMS PTY LTD

Attention: CTPI 49-Sch4
 Your Order:
 Sample Type: SOIL
 Project:

Page-no: 1
 ENV BRISBANE
 Batch-no: 12632
 Sub-batch: 2
 No-samples: 5
 Received: 13/01/98
 Checked:

Method	Analysis description	Units	LOR	1a	1b	2a
EA-655	Moisture Content (dried @ 103° C)		5.1	14.3	13.2	9.8
EP-068A-SS	ORGANOCHLORINE PESTICIDES					
EP-068A-SS	alpha-BHC	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	MCB	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1	<0.1
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor epoxide	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 1	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDE	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDD	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDT	mg/kg	0.2	<0.2	<0.2	<0.2
EP-068A-SS	Endrin ketone	mg/kg	0.05	<0.05	<0.05	<0.05
EP-068A-SS	Methoxychlor	mg/kg	0.2	<0.2	<0.2	<0.2
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURRO					
EP-068S-SS	Dibromo-DDE	%	1	100	85	85

Samples analysed on an as received basis. Results reported on a dry weight basis.

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Page 92 of 106

Perth Laboratory
 Phone (08) 249 2288



INEMS PTY LTD

Attention: CTPI 49-Sch4
 Your Order:
 Sample Type: SOIL
 Project:

Page no: 2
 ENV BRISBANE
 Batch no: 12632
 Sub-batch: 2
 No-samples: 5
 Received: 13/01/99
 Checked:

Method	Analysis description	Units	LOR	2b	Composite
EA-055	Moisture Content (dried @ 103' %		0.1	13.9	13.2
EP-068A-SS	ORGANOCHLORINE PESTICIDES				
EP-068A-SS	alpha-BHC	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	HECB	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Heptachlor epoxide	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 1	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	DDE	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	DDD	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	DDT	mg/kg	0.2	<0.2	<0.2
EP-068A-SS	Endrin ketone	mg/kg	0.05	<0.05	<0.05
EP-068A-SS	Methoxychlor	mg/kg	0.2	<0.2	<0.2
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURRO				
EP-068S-SS	Dibromo-DDE	%	1	72	91

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IMEMS PTY LTD

Attention: CTPI 49-Sch4

YourOrder:

SampleType:SOIL

Project:

Page-no: 1

ENV BRISBANE

Batch-no: 12632

Sub-batch:4

No-samples:5

Received: 13/01/98

Checked:

Method	Analysis description	Units	LOR	1a	1b	2a
EA-055	Moisture Content (dried @ 103° ±		0.1	14.3	13.2	9.8
EP-066-SS	Total Polychlorinated biphenyl mg/kg		0.1	<0.1	<0.1	<0.1
EP-066S-SS	POLYCHLORINATED BIPHENYL SURRO					
EP-066S-SS	Decachlorobiphenyl		1	84	71	102

Samples analysed on an as received basis. Results reported on a dry weight basis.

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IMEMS PTY LTD

Attention: CTPI 49-Sch4

Your Order:

Sample Type: SOIL

Project:

Page-no: 2

ENV BRISBANE

Batch-no: 12632

Sub-batch: 4

No-samples: 5

Received: 13/01/98

Checked:

Method	Analysis description	Units	LOR	2b	Composite
EA-055	Moisture Content (dried @ 103' %		0.1	13.9	13.2
EP-066-SS	Total Polychlorinated biphenyl mg/kg		0.1	<0.1	<0.1
EP-066S-SS	POLYCHLORINATED BIPHENYL SURRO				
EP-066S-SS	Decachlorobiphenyl %		1	93	62

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Appendix D
MSDS Data Sheets

Published on DES Disclosure Log
RTI Act 2009

Released



Rheomix 350

Page : 1 of 3

Revision No. : 1

Date of Issue : December 1996

MATERIAL SAFETY DATA SHEET

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.

STATEMENT OF HAZARDOUS NATURE

Not Hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company : MBT (Australia) Pty. Limited A.C.N. 000 450 188
Address : 11 Stanton Road, Seven Hills, NSW 2147
Telephone Number : 02 - 9624 4200
Emergency Telephone Number : 02 - 9214 2529

IDENTIFICATIONS

Product Name : RHEOMIX 350
Other Name : AL1606
Manufacturer's Product Code : 10922, 11444
UN Number : none allocated
Dangerous Goods Class : none allocated
Subsidiary Risk : none allocated
EPG Card : none allocated
Shipping Name : none allocated
Hazchem Code : none allocated
Poisons Schedule : none allocated

USE

Major Recommended uses : Aqueous admixture solution for improving properties of concrete masonry.

PHYSICAL DESCRIPTION / PROPERTIES

Appearance : Clear bright yellow liquid
Boiling Point (°C) : >100
Melting Point (°C) : not available
Vapour Pressure @ 25°C (kPa) : not available
Specific Gravity : 1.0 approx.
Flashpoint (°C) : not available
Flammability Limits (%) : UEL - not applicable
LEL - not applicable
Solubility in Water : Soluble

OTHER PROPERTIES

pH : >9

Release



Rheomix 600

Page : 1 of 3

Revision No. : 1

Date of Issue : December 1996

MATERIAL SAFETY DATA SHEET

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.

STATEMENT OF HAZARDOUS NATURE

Not Hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company : MBT (Australia) Pty. Limited A.C.N. 000 150 288
 Address : 11 Stanton Road, Seven Hills, NSW 2147
 Telephone Number : 02 - 9624 4200
 Emergency Telephone Number : 02 - 9214 2529

IDENTIFICATIONS

Product Name : RHEOMIX 600
 Other Name : Lubricrete HS
 Manufacturer's Product Code : 10600, 10601
 UN Number : none allocated
 Dangerous Goods Class : none allocated
 Subsidiary Risk : none allocated
 EPG Card : none allocated
 Shipping Name : none allocated
 Hazchem Code : none allocated
 Poisons Schedule : none allocated

USE
 Major Recommended uses : Aqueous admixture solution for improving properties of concrete masonry.

PHYSICAL DESCRIPTION / PROPERTIES

Appearance : Clear green liquid
 Boiling Point (°C) : >100
 Melting Point (°C) : not available
 Vapour Pressure @ 25°C (kPa) : not available
 Specific Gravity : 1.0 approx.
 Flashpoint (°C) : not available
 Flammability Limits (%) : UEL - not applicable
 : LEL - not applicable
 Solubility in Water : Soluble

OTHER PROPERTIES

pH : >8

Rele



Rhaomix 600

Page : 2 of 3

Revision No. : 1

Date of Issue : December 1996

INGREDIENTS

Chemical Name

CAS Number

Proportion

* Surfactant

10-30%

* Non hazardous ingredients

to 100%

* Non hazardous ingredients are exempted according to NOHSC and SUSDP Standards.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute

Swallowed

: No adverse effects expected, however large amounts may cause nausea, diarrhoea and vomiting.

Eye

: May cause slight irritation.

Skin

: Repeated or prolonged skin contact may lead to irritation.

Inhaled

: not applicable

Chronic

: Not a carcinogen, mutagen or teratogen. There have been no reports in the literature of health effects in workers arising from long term exposure to this material and no comprehensive human studies have been conducted.

FIRST AID

Swallowed

: Do NOT induce vomiting. Wash mouth with water and seek medical attention.
: While holding eyes open, gently flood with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Eye

: Wash contacted area thoroughly with soap and plenty of water. Seek medical attention in event of irritation.

Skin

: Remove to fresh air. Lay patient down and rest.

Inhaled

: Ensure availability of clean water for eye/skin wash.

First Aid Facilities

: Treat symptomatically.

Advice to Doctor

PRECAUTIONS FOR USE

Exposure Standards

: not available

Engineering Controls

: Natural ventilation should be adequate under normal use conditions.
Keep containers closed when not in use.

PERSONAL PROTECTION

Respirator Type (AS/NZS 1716) :

not applicable

Glove Type (AS2161)

Nitrile rubber or PVC gauntlets

Eye Protection

Chemical worker's goggles

Clothing

Overalls

Other

Use barrier creams to protect skin from contact with the material.

Wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

FLAMMABILITY

Fire Hazards

: none

Sources of Ignition Advice

: none



Master Builders
Technologies

Rheomix 600

Page : 3 of 3

Revision No. : 1

Date of Issue : December 1996

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Location : Store in a cool, dry area.
 Temperature Conditions : 5 to 35°C
 Protection from Weather : Store undercover and away from frost and direct sunlight.
 Storage Incompatibilities : Strong oxidising agents, acids and alkalis.
 Avoid contact with metal (eg iron).

SPILLS AND DISPOSAL

Clean Up Spills / Leaks : Small spills flush down with hot water and may be into the sewer.
 Major spills should be contained by adsorbing with dry inert filler (soil, sand or vermiculite), which then can be shovel into appropriately labelled drums for disposal. Residual liquid should be flush down as Small spills.
 Dispose - Secure Landfill : Yes
 Dispose - High Temp Incinerator : No
 State / Territory Authority : Observe all Federal, State and Local regulations.
 Precautions for Clean Up Crew : Nitrile rubber or PVC gauntlets.

FIRE / EXPLOSION HAZARD

Hazard of Use / Storage : Stable under normal storage and application temperature.
 List of Dangerous Decomposition or Combustion Products : Oxides of carbon and possibly thick black fumes.
 Types of Extinguisher : Foam, CO₂ and Dry Chemical.
 Precautions : none
 Protective Clothing : none
 Reactivity : none
 Hazchem Code : none allocated

OTHER INFORMATION

Ecology : Do not discharge into sewers unless connected to a waste water treatment plant.
 R Phrase(s) : none allocated
 S Phrase(s) : none allocated

CONTACT POINT

Title : Development Chemist
 Telephone Number : 02 - 9674 6675 Technical Centre
 02 - 9214 2529 After hours

POISONS INFORMATION CENTRE

Telephone Number : 131 126

CTPI 49-Sch4



Rheomix 350

Page : 2 of 3

Revision No. : 1

Date of Issue : December 1996

INGREDIENTS

Chemical Name	CAS Number	Proportion
* Fatty acid solution		10-30%
* Non hazardous ingredients		to 100%

* Non hazardous ingredients are exempted according to NOHSC and SUSDP Standards.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute	
Swallowed	: No adverse effects expected, however large amounts may cause nausea, diarrhoea and vomiting.
Eye	: May cause slight irritation.
Skin	: Repeated or prolonged skin contact may lead to irritation.
Inhaled	: not applicable
Chronic	: Not a carcinogen, mutagen or teratogen. There have been no reports in the literature of health effects in workers arising from long term exposure to this material and no comprehensive human studies have been conducted.

FIRST AID

Swallowed	: Do NOT induce vomiting. Wash mouth with water and seek medical attention.
Eye	: While holding eyes open, gently flood with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin	: Wash contacted area thoroughly with soap and plenty of water. Seek medical attention in event of irritation.
Inhaled	: Remove to fresh air. Lay patient down and rest.
First Aid Facilities	: Ensure availability of clean water for eye/skin wash.
Advice to Doctor	: Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards	: not available
Engineering Controls	: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

PERSONAL PROTECTION

Respirator Type (AS/NZS 1716)	: not applicable
Glove Type (AS2161)	: Nitrile rubber or PVC gauntlets
Eye Protection	: Chemical worker's goggles
Clothing	: Overalls
Other	: Use barrier creams to protect skin from contact with the material. Wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

FLAMMABILITY

Fire Hazards	: none
Sources of Ignition Advice	: none

Rel

Master Builders
Technologies

Rheomix 350

Page : 3 of 3

Revision No. : 1

Date of Issue : December 1996

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Location : Store in a cool, dry area.
 Temperature Conditions : 5 to 35°C
 Protection from Weather : Store undercover and away from frost and direct sunlight.
 Storage Incompatibilities : Strong oxidising agents, acids and alkalis.

SPILLS AND DISPOSAL

Clean Up Spills / Leaks : Small spills flush down with hot water and may be into the sewer.
 Major spills should be contained by adsorbing with dry inert filler (soil, sand or vermiculite), which then can be shovel into appropriately labelled drums for disposal. Residual liquid should be flush down as Small spills.

Dispose - Secure Landfill : Yes
 Dispose - High Temp Incinerator : No
 State / Territory Authority : Observe all Federal, State and Local regulations.
 Precautions for Clean Up Crew : Nitrile rubber or PVC gauntlets.

FIRE / EXPLOSION HAZARD

Hazard of Use / Storage : Stable under normal storage and application temperature.
 List of Dangerous Decomposition or Combustion Products : Oxides of carbon and possibly thick black fumes.
 Types of Extinguisher : Foam, CO₂ and Dry Chemical.
 Precautions : none
 Protective Clothing : none
 Reactivity : none
 Hazchem Code : none allocated

OTHER INFORMATION

Ecology : Do not discharge into sewers unless connected to a waste water treatment plant.
 R Phrase(s) : none allocated
 S Phrase(s) : none allocated

CONTACT POINT

Title : Development Chemist
 Telephone Number : 02 - 9674 6675 Technical Centre
 : 02 - 9214 2529 After hours

POISONS INFORMATION CENTRE

Telephone Number : 131 126

CONDITIONS OF USE LOT 10 ON SP140305
DATE OF EFFECT – 18 July 2005

On the basis of the information supplied to the Environmental Protection Agency (EPA), the subject property is suitable for commercial and industrial use. The following conditions apply due to the presence of Total Petroleum Hydrocarbons in the soil above the EPA thresholds.

1. The development of the property shall incorporate a cap of hard paving (eg bitumen seal or concrete slab) or be covered with at least 0.5 metres of clean fill.
2. Where soils are to be excavated on site, personnel involved in the excavation works shall be informed that the site is "Managed" on the Environmental Management Register as well as the nature and extent of contamination on site.
3. A site specific health and safety plan is to be developed if construction works disturb contaminated areas of the site.
4. The disposal of any contaminated soils from site will be subject to Environmental Protection Agency approval as per section 424 of the *Environmental Protection Act 1994*.
5. The owner of the site is responsible for providing copies of the Site Contamination Report to occupiers and potential purchasers of the site.

End of Conditions

Rele



fixed 19/7/2005
**Queensland
Government**

Enquiries Darryl Byers
Telephone (07) 3225 1827
Your reference
Our reference 902148

Environmental Protection Agency

Incorporating the
Queensland Parks and Wildlife Service

18 July 2005

Attn: CTPI 49-S Clayton Utz (fax: 3003 1366)

Conditions of Use – Lot 11 on SP140305 (Previously Lot 2 on RP97056)

As per your telephone conversation with Darryl Byers on 18 July 2005 please find attached conditions of use for the site referenced above. These conditions of use were contained in the Site Contamination Report (issued under the *Contaminated Land Act 1991*) for the site dated 23rd January 1998 and subsequently amended on 18 July 2005. Pursuant to section 582 of the *Environmental Protection Act 1994* these conditions still apply.

Please contact me if you require any further information.

Yours sincerely

CTPI 49-Sch4

Elissaveth Black
Principal Scientific Advisor (Contaminated Land Unit)

CONDITIONS OF USE LOT 11 ON SP140305
DATE OF EFFECT – 18 July 2005

On the basis of the information supplied to the Environmental Protection Agency (EPA), the subject property is suitable for commercial and industrial use. The following conditions apply due to the presence of Total Petroleum Hydrocarbons in the soil above the EPA thresholds.

1. The development of the property shall incorporate a cap of hard paving (eg bitumen seal or concrete slab) or be covered with at least 0.5 metres of clean fill.
2. Where soils are to be excavated on site, personnel involved in the excavation works shall be informed that the site is "Managed" on the Environmental Management Register as well as the nature and extent of contamination on site.
3. A site specific health and safety plan is to be developed if construction works disturb contaminated areas of the site.
4. The disposal of any contaminated soils from site will be subject to Environmental Protection Agency approval as per section 424 of the *Environmental Protection Act 1994*.
5. The owner of the site is responsible for providing copies of the Site Contamination Report to occupiers and potential purchasers of the site.

End of Conditions

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