

QAQC : Laboratory Control Sample(s)

Analyte	Level	Level Detected			Recovery Details		
		Result1	Result2	Result3	Rec 1 (%)	Rec 2 (%)	Rec 3 (%)
1,1-Dichloroethene	10	9			86%		
1,2-Dichloroethane							
1,1-Dichloroethane							
cis-1,2-Dichloroethene							
trans-1,2-Dichloroethene							
1,2-Dichloropropane							
1,3-Dichloropropane							
2,2-Dichloropropane							
1,1-Dichloropropylene							
cis-1,3-Dichloropropylene							
trans-1,3-Dichloropropylene							
Ethylbenzene							
Hexachlorobutadiene							
Isopropylbenzene							
p-Isopropyltoluene							
Methylene chloride							
Naphthalene							
n-Propylbenzene							
Styrene							
1,1,1,2-Tetrachloroethane							
1,1,1,2,2-Tetrachloroethane							
Tetrachloroethene							
Toluene	10	10			97%		
1,2,3-Trichlorobenzene							
1,2,4-Trichlorobenzene							

PQL = Practical Quantitation Limit
 -- = Not Applicable
 nd = <PQL

(S) Soils : mg/kg (ppm) dry weight
 (W) Waters : mg/L (ppm) unless otherwise specified

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[illegible]

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QAQC : Method Blank(s)

ANALYTE	Sample ID PQL	Blank1	Blank2	Blank3	Blank4	Blank5
E1290 Volatile Organic Compounds in Soil						
Benzene	0.5	nd				
Bromobenzene	1	nd				
Bromochloromethane	1	nd				
Bromodichloromethane	1	nd				
Bromoform	1	nd				
Bromomethane	1	nd				
n-Butylbenzene	1	nd				
sec-Butylbenzene	1	nd				
tert-Butylbenzene	1	nd				
Carbon tetrachloride	1	nd				
Chlorobenzene	1	nd				
Chloroethane	1	nd				
Chloroform	1	nd				
Chloromethane	1	nd				
2-Chlorotoluene	1	nd				
4-Chlorotoluene	1	nd				
Dibromochloromethane	1	nd				
1,2-Dibromo-3-chloropropane	1	nd				
1,2-Dibromoethane (EDB)	1	nd				
Dibromomethane	1	nd				
1,2-Dichlorobenzene	1	nd				
1,3-Dichlorobenzene	1	nd				
1,4-Dichlorobenzene	1	nd				
Dichlorodifluoromethane	1	nd				

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QAQC : Method Blank(s)

ANALYTE	Sample ID PQL	Blank1	Blank2	Blank3	Blank4	Blank5
1.1-Dichloroethene	1	nd				
1.2-Dichloroethane	1	nd				
1.1-Dichloroethane	1	nd				
cis-1.2-Dichloroethene	1	nd				
trans-1.2-Dichloroethene	1	nd				
1.2-Dichloropropane	1	nd				
1.3-Dichloropropane	1	nd				
2.2-Dichloropropane	1	nd				
1.1-Dichloropropylene	1	nd				
cis-1.3-Dichloropropylene	1	nd				
trans-1.3-Dichloropropylene	1	nd				
Ethylbenzene	1	nd				
Hexachlorobutadiene	1	nd				
Isopropylbenzene	1	nd				
p-Isopropyltoluene	1	nd				
Methylene chloride	1	nd				
Naphthalene	1	nd				
n-Propylbenzene	1	nd				
Styrene	1	nd				
1.1.1.2-Tetrachloroethane	1	nd				
1.1.2.2-Tetrachloroethane	1	nd				
Tetrachloroethene	1	nd				
Toluene	1	nd				
1.2.3-Trichlorobenzene	1	nd				
1.2.4-Trichlorobenzene	1	nd				

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(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/L (ppm) unless otherwise specified

ANALYTICAL SERVICES DIVISION

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CERTIFICATE OF ANALYSIS

Contents :

1. Cover Pages (2)
2. Analysis Report Pages
3. QA/QC Appendix
4. Additional Reports - External (if applicable)
5. Chain of Custody (if applicable)

Report No. : 5E0835

Attention : Mr Simon Oppen

Client : Sinclair Knight Merz
: PO Box 164
: ST LEONARDS NSW 1590

Samples : 2

Reference/Order : EN01669

Project : EN01669

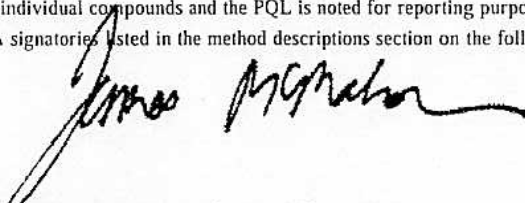
Received Samples : 03/03/05 **Instructions** : 03/03/05

Date Reported : 18/03/05

PLEASE SEE FOLLOWING PAGES FOR METHOD LISTING AND RESULTS

RESULTS

All samples were analysed as received. This report relates specifically to the samples as received. Results relate to the source material only to the extent that the samples as supplied are truly representative of the sample source. This report replaces any preliminary results issued. Note that for methods indicated with "#", NATA accreditation does not cover the performance of this service. Three significant figures (or 2 for <10PQL) are reported for statistical purposes only. Where "Total" concentrations are reported for organic suites of compounds this is the summation of the individual compounds and the PQL is noted for reporting purposes only. This report has been authorized by the NATA signatories listed in the method descriptions section on the following page.



James McMahon B.Sc., Ph.D. (Chem.)
Manager - Environmental



Report No. : 5E0835

Please note: Where samples are collected/submitted over several days, the date on which the last samples were analysed or extracted is reported.

Unless Ferrous Iron is determined on site, the possibility of a ferrous-ferric ratio change may occur.

<u>Method</u>	<u>Description</u>	<u>Extracted</u>	<u>Analysed</u>	<u>Authorised</u>
E0230	TPH C6-C9 by purge & trap	07/03/05	07/03/05	GTO 094
E0221F	TPH (C10-C36)	10/03/05	11/03/05	GTO 094
E0010	Benzene, Toluene, Ethylbenzene & Xylene	07/03/05	07/03/05	GTO 094
E4870	Dissolved Metals by ICP-MS	10/03/05	10/03/05	DLU 093
E4850	Mercury	09/03/05	09/03/05	DLU 093
E4830	Hexavalent Chromium	14/03/05	14/03/05	PKE 101
E0143A	Phenols by GC/MS	11/03/05	15/03/05	MFA 095
E0110	Polycyclic Aromatic Hydrocarbons	10/03/05	11/03/05	MFA 095
E2530	Total Hardness	10/03/05	10/03/05	DLU 093
E2350	BOD (5)	09/03/05	14/03/05	PKE 101
E2420	Chemical Oxygen Demand	07/03/05	07/03/05	PKE 101
E2580	Total Organic Carbon	09/03/05	09/03/05	PKE 101
E2570	Total Nitrogen	18/03/05	18/03/05	PKE 101
E2770	TKN	10/03/05	11/03/05	PKE 101
E2550	Nitrate-N	08/03/05	08/03/05	PKE 101
E2560	Nitrite-N	08/03/05	08/03/05	PKE 101
E2330	Ammonia as N	08/03/05	08/03/05	PKE 101



NATA Signatory

<u>Initials</u>	<u>Name</u>	<u>Sections/Methods</u>
MCM	James McMahon	093, 094, 095, 101
MNG	Minh Nguyen	094, 095
MFA	Mark Fahmy	094, 095
LHA	Ly Kim Ha	094, 095, 096
DJA	Dilanthi Jayamanne	094
GTO	Greg Towers	094
GPE	Geoff Peterson	095
DLU	Darrel Luck	093
MAV	Merrin Avery	101
DBL	Dianne Blane	101
NCO	Nathan Cooper	101
AGR	Alison Graham	101
PKE	Peter Keyte	101