amdel

Job Number : 5E0674
Client : Sinclair Knight Merz
Reference : EN01669
Project : MACDONALDTOWN

Analyte	Lab No	E179645	E179647			
		MW41D	MW38D			
	Sample Id	7.0m	2-2.45m			
	PQL					
E1290 Volatile Organic Compounds in Soil						
Benzene	0.5	nd	nd			
Bromobenzene	1	nd	nd			
Bromochloromethane	1	nd	nd			
Bromodichloromethane	1	nd	nd			
Bromoform	1	nd	nd			
Bromomethane	1	nd	nd			
n-Butylbenzene	1	nd	nd			
sec-Butylbenzene	1	nd	nd			
tert-Butylbenzene	1	nd	nd			
Carbon tetrachloride	1	nd	nd			
Chlorobenzene	1	nd	nd			
Chloroethane	1	nd	nd			
Chloroform	1	nd	nd			
Chloromethane	1	nd	nd			
2-Chlorotoluene	1	nd	nd			
4-Chlorotoluene	1	nd	nd			
Dibromochloromethane	1	nd	nd			
1.2-Dibromo-3-chloropropane	1	nd	nd			
1.2-Dibromoethane (EDB)	1	nd	nd			
Dibromomethane	1	nd	nd			
1.2-Dichlorobenzene	1	nd	nd			
1.3-Dichlorobenzene	1	nd	nd			
1.4-Dichlorobenzene	1	nd	nd			
Dichlorodifluoromethane	1	nd	nd			

PQL = Practical Quantitation Limit
LNR = Samples Listed not Received
nd = <PQL
-- = Not Applicable

Soils : mg/kg (ppm) dry weight unless otherwise specified
Waters : mg/L (ppm) unless otherwise specified in Method Header
Leachates : mg/L (ppm) in leachate unless otherwise specified in Method Header

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		MW41D	MW38D			
	Sample Id	7.0m	2-2.45m			
	PQL					
1.1-Dichloroethene	1	nd	nd			
1.2-Dichloroethane	1	nd	nd			
1.1-Dichloroethane	1	nd	nd			
cis-1.2-Dichloroethene	1	nd	nd			
trans-1.2-Dichloroethene	1	nd	nd			
1.2-Dichloropropane	1	nd	nd			
1.3-Dichloropropane	1	nd	nd			
2.2-Dichloropropane	1	nd	nd			
1.1-Dichloropropylene	1	nd	nd			
cis-1.3-Dichloropropylene	1	nd	nd			
trans-1.3-Dichloropropylene	1	nd	nd			
Ethylbenzene	1	nd	nd			
Hexachlorobutadiene	1	nd	nd			
Isopropylbenzene	1	nd	nd			
p-Isopropyltoluene	1	nd	nd			
Methylene chloride	1	nd	nd			
Naphthalene	1	nd	nd			
n-Propylbenzene	1	nd	nd			
Styrene	1	nd	nd			
1.1.1.2-Tetrachloroethane	1	nd	nd			
1.1.2.2-Tetrachloroethane	1	nd	nd			
Tetrachloroethene	1	nd	nd			
Toluene	1	nd	nd			
1.2.3-Trichlorobenzene	1	nd	nd			
1.2.4-Trichlorobenzene	1	nd	nd			

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		MW41D	MW38D			
	Sample Id	7.0m	2-2.45m			
	PQL					
1.1.1-Trichloroethane	1	nd	nd			
1.1.2-Trichloroethane	1	nd	nd			
Trichloroethene	1	nd	nd			
Trichlorofluoromethane	1	nd	nd			
1.2.3-Trichloropropane	1	nd	nd			
1.2.4-Trimethylbenzene	1	nd	nd			
1.3.5-Trimethylbenzene	1	nd	nd			
Vinyl chloride	1	nd	nd			
ortho-Xylene	1	nd	nd			
meta- & para-Xylene	2	nd	nd			
Pentafluorobenzene-SURROGATE	1	96%	98%			
Toluene-D8-SURROGATE	1	102%	97%			
4-Bromofluorobenzene-SURROGATE	1	98%	99%			

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Analyte	Lab No	E179645	E179647			
		MW41D	MW38D			
	Sample Id	7.0m	2-2.45m			
	PQL					
E1180 Semivolatile Organic Compounds						
Phenol	1	nd	nd			
Aniline	10	nd	nd			
Bis(2-chloroethyl) ether	1	nd	nd			
2-Chlorophenol	1	nd	nd			
1.3-Dichlorobenzene	1	nd	nd			
1.4-Dichlorobenzene	1	nd	nd			
1.2-Dichlorobenzene	1	nd	nd			
Benzyl Alcohol	1	nd	nd			
2-Methylphenol	1	nd	nd			
N-Nitrosodi-n-propylamine	1	nd	nd			
Bis(2-chloroisopropyl) ether	1	nd	nd			
3 and 4-Methyl phenol	1	nd	nd			
Hexachloroethane	1	nd	nd			
Nitrobenzene	1	nd	nd			
Isophorone	1	nd	nd			
2-Nitrophenol	1	nd	nd			
2.4-Dimethylphenol	1	nd	nd			
Bis(2-chloroethoxy) methane	1	nd	nd			
Benzoic Acid	10	nd	nd			
2.4-Dichlorophenol	1	nd	nd			
1.2.4-Trichlorobenzene	1	nd	nd			
Naphthalene	1	nd	nd			
4-Chloroaniline	1	nd	nd			
Hexachlorobutadiene	1	nd	nd			

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Analyte	Lab No	E179645	E179647			
		MW41D	MW38D			
	Sample Id	7.0m	2-2.45m			
	PQL					
4-Chloro-3-methylphenol	1	nd	nd			
2-Methylnaphthalene	1	nd	nd			
Hexachlorocyclopentadiene	1	nd	nd			
2.4.6-Trichlorophenol	1	nd	nd			
2.4.5-Trichlorophenol	1	nd	nd			
2-Chloronaphthalene	1	nd	nd			
2-Nitroaniline	1	nd	nd			
Dimethyl phthalate	1	nd	nd			
2.6-Dinitrotoluene	1	nd	nd			
Acenaphthylene	1	nd	nd			
3-Nitroaniline	1	nd	nd			
Acenaphthene	1	nd	nd			
2.4-Dinitrophenol	1	nd	nd			
4-Nitrophenol	1	nd	nd			
Dibenzofuran	1	nd	nd			
Diethyl phthalate	1	nd	nd			
Fluorene	1	nd	nd			
4-Chlorophenyl phenyl ether	1	nd	nd			
4-Nitroaniline	1	nd	nd			
4.6-Dinitro-2-methylphenol	1	nd	nd			
Azobenzene	10	nd	nd			
N-Nitrosodiphenylamine	10	nd	nd			
a-BHC	1	nd	nd			
4-Bromophenyl phenyl ether	1	nd	nd			
Hexachlorobenzene	1	nd	nd			

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Analyte	Lab No	E179645	E179647			
		MW41D	MW38D			
	Sample Id	7.0m	2-2.45m			
	PQL					
b-BHC	1	nd	nd			
Pentachlorophenol	1	nd	nd			
g-BHC	1	nd	nd			
Phenanthrene	1	nd	nd			
Anthracene	1	nd	nd			
d-BHC	1	nd	nd			
Heptachlor	1	nd	nd			
Di-n-butyl phthalate	1	nd	nd			
Aldrin	1	nd	nd			
Heptachlor epoxide	1	nd	nd			
Fluoranthene	1	nd	nd			
Pyrene	1	nd	nd			
Endosulfan 1	1	nd	nd			
4.4-DDE	1	nd	nd			
Dieldrin	1	nd	nd			
Endrin	1	nd	nd			
Endosulfan 2	1	nd	nd			
4.4-DDD	1	nd	nd			
Endrin aldehyde	1	nd	nd			
Butyl benzyl phthalate	1	nd	nd			
Endosulfan sulfate	1	nd	nd			
4.4-DDT	1	nd	nd			
3.3-Dichlorobenzidine	10	nd	nd			
Benzo(a)anthracene	1	nd	nd			
Chrysene	1	nd	nd			

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Analyte	Lab No	E179645	E179647			
		MW41D	MW38D			
	Sample Id	7.0m	2-2.45m			
	PQL					
Bis(2-ethylhexyl) phthalate	1	nd	nd			
Di-n-octylphthalate	1	nd	nd			
Benzo(b)fluoranthene	1	nd	nd			
Benzo(k)fluoranthene	1	nd	nd			
Benzo(a)pyrene	1	nd	nd			
Indeno(1.2.3-cd)pyrene	1	nd	nd			
Dibenz(a.h)anthracene	1	nd	nd			
Benzo(g.h.i)perylene	1	nd	nd			
2-Fluorophenol-SURROGATE	1	72%	70%			
Phenol-D5-SURROGATE	1	95%	98%			
Nitrobenzene-D5-SURROGATE	1	72%	73%			
2-Fluorobiphenyl-SURROGATE	1	108%	99%			
2.4.6-Tribromophenol-SURROGATE	1	79%	77%			
p-Terphenyl-D14-SURROGATE	1	101%	102%			

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AMDEL INTERNAL QUALITY ASSURANCE REVIEW.

Job No. 5E0674

General

1. Laboratory QA/QC including Method Blanks, Duplicates, Matrix Spikes, Laboratory Control Samples or CRM's are included in this QA/QC appendix. (Where applicable)
2. Inter-Laboratory proficiency trial results are available upon request.
3. PQLs are matrix dependent and are increased accordingly where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spike or surrogate recoveries.
5. Where 3 and 2 significant figures are reported for >10x PQL and <10x PQL respectively, the last figure is uncertain and is provided for statistical purposes only.
6. Samples duplicated or spiked are from this job only and are identified in the following QA/QC report.
7. SVOC analyses on waters are performed on homogenized, unfiltered samples, unless noted otherwise.

Maximum Holding Times for Soils, Sediments and Waters

Parameter	Holding Times
Soils	
Volatile and Semi-Volatile Organic Analysis.	Extracted in 14 days, analysed within 40 days.
Metals	Extracted and analysed within 28 days-6 months.
Inorganics*	Extracted and analysed within 7-28 days.
TCLPs*	Extracted and analysed within 14 days, (Zero Headspace-TCLP 7 days).
Waters	
Volatile Organic Analysis	Analysed within 7 days (USEPA requires 14 days).
Semi-Volatile Organic Analysis	Extracted in 7 days, analysed within 40 days.
Inorganics*	Analysed within 24 hrs-28 days.
Metals (dissolved metals should be supplied field filtered)	Prepared and analysed within 28 days.

* Please refer to 'Preservation Information Chart for Soils, Sediments & Waters' for further information. (ISFORM.098). Holding times may be extended with the use of preservation bottles and/or freezing samples. Holding times can be calculated from dates reported in the body of the report. Tests clearly exceeding holding times will be noted when sufficient information is provided.
Reference: USEPA SW846 and AMDEL SPM-01 (incorporating NEPM Guidelines).

Chain of Custody and Sample Integrity	Yes/NO/NA
Chain of Custody / instructions received with samples	Yes
Custody seals were received intact, if used	NA
Samples were received chilled and in good condition	Yes
Samples received appropriately preserved for all tests	Yes
VOC/SVOC samples were received in teflon lined containers	Yes
Samples received with Zero Headspace	Yes
Chain of Custody completed and attached (if applicable)	Yes

Chromatography Calibration/Acceptence Criteria (if applicable)

Retention time window meets acceptance criteria (+/-2%)	Yes
Reference standard meets acceptance criteria (+/-10%)	Yes
Recalibration standard meets acceptance criteria (+/-15%)	Yes
Internal standard recovery acceptable.	Yes