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NATA Accredited Laboratory - 825

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Client : CH2M HILL PTY LTD
 Project : 347496 McDonaldtown Gasworks

Work Order : ES0610062
 ALS Quote Reference : ----

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Quality Control Report - Laboratory Duplicates (DUP)

The quality control term **Laboratory Duplicate** refers to an intralaboratory split sample randomly selected from the sample batch. Laboratory duplicates provide information on method precision and sample heterogeneity.
 - Anonymous - Client Sample IDs refer to samples which are not specifically part of this work order but formed part of the QC process lot. *Abbreviations: LOR = Limit of Reporting, RPD = Relative Percent Difference.*
 * Indicates failed QC. The permitted ranges for the RPD of Laboratory Duplicates (relative percent deviation) are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting:- Result < 10 times LOR, no limit - Result between 10 and 20 times LOR, 0% - 50% - Result > 20 times LOR, 0% - 20%

Matrix Type: SOIL Laboratory Duplicates (DUP) Report

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EA055: Moisture Content						
EA055: Moisture Content - (QC Lot: 260372)				%	%	%
ES0610042-001	Anonymous	Moisture Content (dried @ 103°C)	1.0 %	39.0	39.7	1.6
ES0610062-011	TP04/0.5	Moisture Content (dried @ 103°C)	1.0 %	17.1	17.1	0.0
EA055: Moisture Content - (QC Lot: 260373)				%	%	%
ES0610062-024	TP07/0.5	Moisture Content (dried @ 103°C)	1.0 %	17.5	17.1	2.1
ES0610062-036	TP10/1.0	Moisture Content (dried @ 103°C)	1.0 %	6.9	7.3	5.0
EA055: Moisture Content - (QC Lot: 260631)				%	%	%
ES0609984-001	Anonymous	Moisture Content (dried @ 103°C)	1.0 %	4.2	4.0	3.7
ES0610063-005	Anonymous	Moisture Content (dried @ 103°C)	1.0 %	16.3	15.2	7.2
EG005T: Total Metals by ICP-AES						
EG005T: Total Metals by ICP-AES - (QC Lot: 259253)				mg/kg	mg/kg	%
ES0609982-001 <						

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Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EG005T: Total Metals by ICP-AES - continued						
EG005T: Total Metals by ICP-AES - (QC Lot: 259255) - continued				mg/kg	mg/kg	%
ES0610062-009	MG03/0.1	Arsenic	5 mg/kg	49	34	38.0
		Cadmium	1 mg/kg	<1	<1	0.0
		Chromium	2 mg/kg	17	24	34.1
		Copper	5 mg/kg	202	186	8.5
		Lead	5 mg/kg	648	697	7.3
		Nickel	2 mg/kg	16	14	11.4
ES0610062-029	TP08/1.0	Zinc	5 mg/kg	315	326	3.4
		Arsenic	5 mg/kg	8	8	0.0
		Cadmium	1 mg/kg	<1	<1	0.0
		Chromium	2 mg/kg	26	23	13.2
		Copper	5 mg/kg	<5	<5	0.0
		Lead	5 mg/kg	14	13	0.0
		Nickel	2 mg/kg	<2	<2	0.0
		Zinc	5 mg/kg	<5	<5	0.0
EG035T: Total Mercury by FIMS						
EG035T: Total Mercury by FIMS - (QC Lot: 259254)				mg/kg	mg/kg	%
ES0609982-001	Anonymous	Mercury	0.1 mg/kg	<0.1	<0.1	0.0
ES0609982-012	Anonymous	Mercury	0.1 mg/kg	<0.1	<0.1	0.0
EG035T: Total Mercury by FIMS - (QC Lot: 259256)				mg/kg	mg/kg	%
ES0610062-009	MG03/0.1	Mercury	0.1 mg/kg	0.9	1.2	21.0
ES0610062-029	TP08/1.0	Mercury	0.1 mg/kg	<0.1	<0.1	0.0
EK025G: Free cyanide by Discrete Analyser						
EK025G: Free cyanide by Discrete Analyser - (QC Lot: 259087)				mg/kg	mg/kg	%
ES0609974-001	Anonymous	Total Cyanide	1.0 mg/kg	<1.0	<1.0	0.0
ES0610062-021	TP06/1.0	Total Cyanide	1.0 mg/kg	<1.0	<1.0	0.0
EP066: Polychlorinated Biphenyls (PCB)						
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 259813)				mg/kg	mg/kg	%
ES0610062-015	TP05/0.5	Total Polychlorinated biphenyls	0.10 mg/kg	<0.10	<0.10	0.0
ES0610118-002	Anonymous	Total Polychlorinated biphenyls	0.10 mg/kg	<0.10	<0.10	0.0

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Matrix Type: SOIL **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP068A: Organochlorine Pesticides (OC)						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 259814)				mg/kg	mg/kg	%
ES0610062-015	TP05/0.5	alpha-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		Hexachlorobenzene (HCB)	0.05 mg/kg	<0.05	<0.05	0.0
		beta-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		gamma-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		delta-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		Heptachlor	0.05 mg/kg	<0.05	<0.05	0.0
		Aldrin	0.05 mg/kg	<0.05	<0.05	0.0
		Heptachlor epoxide	0.05 mg/kg	<0.05	<0.05	0.0
		trans-Chlordane	0.05 mg/kg	0.08	0.10	31.1
		alpha-Endosulfan	0.05 mg/kg	<0.05	<0.05	0.0
		cis-Chlordane	0.05 mg/kg	0.06	0.08	29.2
		Dieldrin	0.05 mg/kg	<0.05	<0.05	0.0
		4,4'-DDE	0.05 mg/kg	<0.05	<0.05	0.0
		Endrin	0.05 mg/kg	<0.05	<0.05	0.0
		beta-Endosulfan	0.05 mg/kg	<0.05	<0.05	0.0
		4,4'-DDD	0.05 mg/kg	<0.05	<0.05	0.0
		Endrin aldehyde	0.05 mg/kg	<0.05	<0.05	0.0
		Endosulfan sulfate	0.05 mg/kg	<0.05	<0.05	0.0
		4,4'-DDT	0.2 mg/kg	<0.2	<0.2	0.0
		Endrin ketone	0.05 mg/kg	<0.05	<0.05	0.0
ES0610118-002	Anonymous	Methoxychlor	0.2 mg/kg	<0.2	<0.2	0.0
		alpha-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		Hexachlorobenzene (HCB)	0.05 mg/kg	<0.05	<0.05	0.0
		beta-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		gamma-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		delta-BHC	0.05 mg/kg	<0.05	<0.05	0.0
		Heptachlor	0.05 mg/kg	<0.05	<0.05	0.0
		Aldrin	0.05 mg/kg	<0.05	<0.05	0.0
		Heptachlor epoxide	0.05 mg/kg	<0.05	<0.05	0.0

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Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 259814) - continued				mg/kg	mg/kg	%
ES0610118-002	Anonymous	trans-Chlordane	0.05 mg/kg	<0.05	<0.05	0.0
		alpha-Endosulfan	0.05 mg/kg	<0.05	<0.05	0.0
		cis-Chlordane	0.05 mg/kg	<0.05	<0.05	0.0
		Dieldrin	0.05 mg/kg	<0.05	<0.05	0.0
		4,4'-DDE	0.05 mg/kg	<0.05	<0.05	0.0
		Endrin	0.05 mg/kg	<0.05	<0.05	0.0
		beta-Endosulfan	0.05 mg/kg	<0.05	<0.05	0.0
		4,4'-DDD	0.05 mg/kg	<0.05	<0.05	0.0
		Endrin aldehyde	0.05 mg/kg	<0.05	<0.05	0.0
		Endosulfan sulfate	0.05 mg/kg	<0.05	<0.05	0.0
		4,4'-DDT	0.2 mg/kg	<0.2	<0.2	0.0
		Endrin ketone	0.05 mg/kg	<0.05	<0.05	0.0
		Methoxychlor	0.2 mg/kg	<0.2	<0.2	0.0
EP068B: Organophosphorus Pesticides (OP)						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 259814)				mg/kg	mg/kg	%
ES0610062-015	TP05/0.5	Dichlorvos	0.05 mg/kg	<0.05	<0.05	0.0
		Demeton-S-methyl	0.05 mg/kg	<0.05	<0.05	0.0
		Monocrotophos	0.2 mg/kg	<0.2	<0.2	0.0
		Dimethoate	0.05 mg/kg	<0.05	<0.05	0.0
		Diazinon	0.05 mg/kg	<0.05	<0.05	0.0
		Chlorpyrifos-methyl	0.05 mg/kg	<0.05	<0.05	0.0
		Parathion-methyl	0.2 mg/kg	<0.2	<0.2	0.0
		Malathion	0.05 mg/kg	<0.05	<0.05	0.0
		Fenthion	0.05 mg/kg	<0.05	<0.05	0.0
		Chlorpyrifos	0.05 mg/kg	<0.05	<0.05	0.0
		Parathion	0.2 mg/kg	<0.2	<0.2	0.0
		Pirimphos-ethyl	0.05 mg/kg	<0.05	<0.05	0.0
		Chlorfenvinphos	0.05 mg/kg	<0.05	<0.05	0.0
		Bromophos-ethyl	0.05 mg/kg	<0.05	<0.05	0.0

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Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP068B: Organophosphorus Pesticides (OP) - continued						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 259814) - continued				mg/kg	mg/kg	%
ES0610062-015	TP05/0.5	Fenamiphos	0.05 mg/kg	<0.05	<0.05	0.0
		Prothiofos	0.05 mg/kg	<0.05	<0.05	0.0
Ethion		0.05 mg/kg	<0.05	<0.05	0.0	
Carbophenothion		0.05 mg/kg	<0.05	<0.05	0.0	
ES0610118-002	Anonymous	Methyl Azinphos	0.05 mg/kg	<0.05	<0.05	0.0
		Dichlorvos	0.05 mg/kg	<0.05	<0.05	0.0
		Demeton-S-methyl	0.05 mg/kg	<0.05	<0.05	0.0
		Monocrotophos	0.2 mg/kg	<0.2	<0.2	0.0
		Dimethoate	0.05 mg/kg	<0.05	<0.05	0.0
		Diazinon	0.05 mg/kg	<0.05	<0.05	0.0
		Chlorpyrifos-methyl	0.05 mg/kg	<0.05	<0.05	0.0
		Parathion-methyl	0.2 mg/kg	<0.2	<0.2	0.0
		Malathion	0.05 mg/kg	<0.05	<0.05	0.0
		Fenthion	0.05 mg/kg	<0.05	<0.05	0.0
		Chlorpyrifos	0.05 mg/kg	<0.05	<0.05	0.0
		Parathion	0.2 mg/kg	<0.2	<0.2	0.0
		Pirimphos-ethyl	0.05 mg/kg	<0.05	<0.05	0.0
		Chlorfenvinphos	0.05 mg/kg	<0.05	<0.05	0.0
		Bromophos-ethyl	0.05 mg/kg	<0.05	<0.05	0.0
		Fenamiphos	0.05 mg/kg	<0.05	<0.05	0.0
		Prothiofos	0.05 mg/kg	<0.05	<0.05	0.0
		Ethion	0.05 mg/kg	<0.05	<0.05	0.0
		Carbophenothion	0.05 mg/kg	<0.05	<0.05	0.0
		Methyl Azinphos	0.05 mg/kg	<0.05	<0.05	0.0
EP075(SIM)A: Phenolic Compounds						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259545)				mg/kg	mg/kg	%
ES0610062-001	MG02/0.2	Phenol	0.5 mg/kg	<0.5	<0.5	0.0
		2-Chlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
		2-Methylphenol	0.5 mg/kg	<0.5	<0.5	0.0

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Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD	
EP075(SIM)A: Phenolic Compounds - continued							
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259545) - continued				mg/kg	mg/kg	%	
ES0610062-001	MG02/0.2	3- & 4-Methylphenol	1.0 mg/kg	<1.0	<1.0	0.0	
		2-Nitrophenol	0.5 mg/kg	<0.5	<0.5	0.0	
		2,4-Dimethylphenol	0.5 mg/kg	1.3	0.8	42.1	
		2,4-Dichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0	
		2,6-Dichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0	
		4-Chloro-3-Methylphenol	0.5 mg/kg	<0.5	<0.5	0.0	
		2,4,6-Trichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0	
	ES0610062-011	TP04/0.5	2,4,5-Trichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
			Pentachlorophenol	2.0 mg/kg	<2.0	<2.0	0.0
			Phenol	0.5 mg/kg	<0.5	<0.5	0.0
2-Chlorophenol			0.5 mg/kg	<0.5	<0.5	0.0	
2-Methylphenol			0.5 mg/kg	<0.5	<0.5	0.0	
3- & 4-Methylphenol			1.0 mg/kg	<1.0	<1.0	0.0	
2-Nitrophenol			0.5 mg/kg	<0.5	<0.5	0.0	
2,4-Dimethylphenol			0.5 mg/kg	<0.5	<0.5	0.0	
2,4-Dichlorophenol			0.5 mg/kg	<0.5	<0.5	0.0	
2,6-Dichlorophenol			0.5 mg/kg	<0.5	<0.5	0.0	
4-Chloro-3-Methylphenol			0.5 mg/kg	<0.5	<0.5	0.0	
2,4,6-Trichlorophenol			0.5 mg/kg	<0.5	<0.5	0.0	
2,4,5-Trichlorophenol			0.5 mg/kg	<0.5	<0.5	0.0	
Pentachlorophenol	2.0 mg/kg	<2.0	<2.0	0.0			
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259801)				mg/kg	mg/kg	%	
ES0610062-021	TP06/1.0	Phenol	0.5 mg/kg	<0.5	<0.5	0.0	
		2-Chlorophenol	0.5 mg/kg	<0.5	<0.5	0.0	
		2-Methylphenol	0.5 mg/kg	<0.5	<0.5	0.0	
		3- & 4-Methylphenol	1.0 mg/kg	<1.0	<1.0	0.0	
		2-Nitrophenol	0.5 mg/kg	<0.5	<0.5	0.0	
		2,4-Dimethylphenol	0.5 mg/kg	<0.5	<0.5	0.0	
		2,4-Dichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0	

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Matrix Type: SOIL **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP075(SIM)A: Phenolic Compounds - continued						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259801) - continued				mg/kg	mg/kg	%
ES0610062-021	TP06/1.0	2,6-Dichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
		4-Chloro-3-Methylphenol	0.5 mg/kg	<0.5	<0.5	0.0
		2,4,6-Trichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
		2,4,5-Trichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
		Pentachlorophenol	2.0 mg/kg	<2.0	<2.0	0.0
ES0610062-036	TP10/1.0	Phenol	0.5 mg/kg	<0.5	<0.5	0.0
		2-Chlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
		2-Methylphenol	0.5 mg/kg	<0.5	<0.5	0.0
		3- & 4-Methylphenol	1.0 mg/kg	<1.0	<1.0	0.0
		2-Nitrophenol	0.5 mg/kg	<0.5	<0.5	0.0
		2,4-Dimethylphenol	0.5 mg/kg	<0.5	<0.5	0.0
		2,4-Dichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
		2,6-Dichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
		4-Chloro-3-Methylphenol	0.5 mg/kg	<0.5	<0.5	0.0
		2,4,6-Trichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
		2,4,5-Trichlorophenol	0.5 mg/kg	<0.5	<0.5	0.0
		Pentachlorophenol	2.0 mg/kg	<2.0	<2.0	0.0
		EP075(SIM)B: Polynuclear Aromatic Hydrocarbons				
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259545)				mg/kg	mg/kg	%
ES0610062-001	MG02/0.2	Naphthalene	0.5 mg/kg	142	94.0	40.6
		Acenaphthylene	0.5 mg/kg	<0.5	<0.5	0.0
		Acenaphthene	0.5 mg/kg	<0.5	<0.5	0.0
		Fluorene	0.5 mg/kg	<0.5	<0.5	0.0
		Phenanthrene	0.5 mg/kg	<0.5	<0.5	0.0
		Anthracene	0.5 mg/kg	<0.5	<0.5	0.0
		Fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0
		Pyrene	0.5 mg/kg	<0.5	<0.5	0.0
		Benz(a)anthracene	0.5 mg/kg	<0.5	<0.5	0.0
		Chrysene	0.5 mg/kg	<0.5	<0.5	0.0

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Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued							
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259545) - continued				mg/kg	mg/kg	%	
ES0610062-001	MG02/0.2	Benzo(b)fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0	
		Benzo(k)fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0	
ES0610062-011		TP04/0.5	Benzo(a)pyrene	0.5 mg/kg	<0.5	<0.5	0.0
			Indeno(1,2,3,cd)pyrene	0.5 mg/kg	<0.5	<0.5	0.0
			Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	<0.5	0.0
	Benzo(g,h,i)perylene		0.5 mg/kg	<0.5	<0.5	0.0	
	Naphthalene		0.5 mg/kg	<0.5	<0.5	0.0	
	Acenaphthylene		0.5 mg/kg	<0.5	<0.5	0.0	
	Acenaphthene		0.5 mg/kg	<0.5	<0.5	0.0	
	Fluorene		0.5 mg/kg	<0.5	<0.5	0.0	
	Phenanthrene		0.5 mg/kg	<0.5	<0.5	0.0	
	Anthracene		0.5 mg/kg	<0.5	<0.5	0.0	
	Fluoranthene		0.5 mg/kg	<0.5	<0.5	0.0	
	Pyrene		0.5 mg/kg	<0.5	<0.5	0.0	
	Benz(a)anthracene		0.5 mg/kg	<0.5	<0.5	0.0	
	Chrysene		0.5 mg/kg	<0.5	<0.5	0.0	
	Benzo(b)fluoranthene		0.5 mg/kg	<0.5	<0.5	0.0	
Benzo(k)fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0			
Benzo(a)pyrene	0.5 mg/kg	<0.5	<0.5	0.0			
Indeno(1,2,3,cd)pyrene	0.5 mg/kg	<0.5	<0.5	0.0			
Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	<0.5	0.0			
Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	<0.5	0.0			
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259801)				mg/kg	mg/kg	%	
ES0610062-021	TP06/1.0	Naphthalene	0.5 mg/kg	<0.5	<0.5	0.0	
		Acenaphthylene	0.5 mg/kg	<0.5	<0.5	0.0	
		Acenaphthene	0.5 mg/kg	<0.5	<0.5	0.0	
		Fluorene	0.5 mg/kg	<0.5	<0.5	0.0	
		Phenanthrene	0.5 mg/kg	<0.5	<0.5	0.0	
		Anthracene	0.5 mg/kg	<0.5	<0.5	0.0	

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Matrix Type: SOIL **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued							
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259801) - continued				mg/kg	mg/kg	%	
ES0610062-021	TP06/1.0	Fluoranthene	0.5 mg/kg	1.4	0.9	48.9	
		Pyrene	0.5 mg/kg	1.7	1.0	50.3	
		Benz(a)anthracene	0.5 mg/kg	0.8	0.5	37.9	
		Chrysene	0.5 mg/kg	0.8	<0.5	44.8	
		Benzo(b)fluoranthene	0.5 mg/kg	<0.5	<0.5	0.0	
		Benzo(k)fluoranthene	0.5 mg/kg	0.6	<0.5	0.0	
		Benzo(a)pyrene	0.5 mg/kg	0.7	<0.5	28.8	
		Indeno(1,2,3,cd)pyrene	0.5 mg/kg	<0.5	<0.5	0.0	
		Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	<0.5	0.0	
		Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	<0.5	0.0	
	ES0610062-036	TP10/1.0	Naphthalene	0.5 mg/kg	<0.5	<0.5	0.0
			Acenaphthylene	0.5 mg/kg	<0.5	<0.5	0.0
			Acenaphthene	0.5 mg/kg	<0.5	<0.5	0.0
			Fluorene	0.5 mg/kg	<0.5	<0.5	0.0
			Phenanthrene	0.5 mg/kg	<0.5	2.6	134
			Anthracene	0.5 mg/kg	<0.5	0.6	22.0
			Fluoranthene	0.5 mg/kg	<0.5	2.1	124
			Pyrene	0.5 mg/kg	<0.5	2.1	122
			Benz(a)anthracene	0.5 mg/kg	<0.5	0.9	54.3
			Chrysene	0.5 mg/kg	<0.5	0.8	43.9
		Benzo(b)fluoranthene	0.5 mg/kg	<0.5	0.5	0.0	
		Benzo(k)fluoranthene	0.5 mg/kg	<0.5	0.6	0.0	
		Benzo(a)pyrene	0.5 mg/kg	<0.5	0.6	26.3	
		Indeno(1,2,3,cd)pyrene	0.5 mg/kg	<0.5	<0.5	0.0	
		Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	<0.5	0.0	
		Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	<0.5	0.0	
		EP080/071: Total Petroleum Hydrocarbons					
		EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 258865)				mg/kg	mg/kg
ES0610062-004	MG02/3.3	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0	

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Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP080/071: Total Petroleum Hydrocarbons - continued						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 258865) - continued				mg/kg	mg/kg	%
ES0610062-011	TP04/0.5	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 258866)				mg/kg	mg/kg	%
ES0610062-023	TP07/0.25	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
ES0610062-031	TP09/0.25	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259252)				mg/kg	mg/kg	%
ES0610044-037	Anonymous	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
ES0610058-002	Anonymous	C6 - C9 Fraction	2 mg/kg	<2	<2	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259546)				mg/kg	mg/kg	%
ES0610062-001	MG02/0.2	C10 - C14 Fraction	50 mg/kg	290	290	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	120	21.6
ES0610062-011	TP04/0.5	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259800)				mg/kg	mg/kg	%
ES0610062-021	TP06/1.0	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
ES0610062-036	TP10/1.0	C10 - C14 Fraction	50 mg/kg	<50	<50	0.0
		C15 - C28 Fraction	100 mg/kg	<100	<100	0.0
		C29 - C36 Fraction	100 mg/kg	<100	<100	0.0
EP080: BTEX						
EP080: BTEX - (QC Lot: 258865)				mg/kg	mg/kg	%
ES0610062-004	MG02/3.3	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
ES0610062-011	TP04/0.5	Benzene	0.2 mg/kg	<0.2	0.3	0.0

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Matrix Type: SOIL **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 258865) - continued				mg/kg	mg/kg	%
ES0610062-011	TP04/0.5	Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
EP080: BTEX - (QC Lot: 258866)				mg/kg	mg/kg	%
ES0610062-023	TP07/0.25	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
ES0610062-031	TP09/0.25	ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
EP080: BTEX - (QC Lot: 259252)				mg/kg	mg/kg	%
ES0610044-037	Anonymous	Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
ES0610058-002	Anonymous	ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		Benzene	0.2 mg/kg	<0.2	<0.2	0.0
		Toluene	0.2 mg/kg	<0.2	<0.2	0.0
		Ethylbenzene	0.2 mg/kg	<0.2	<0.2	0.0
		meta- & para-Xylene	0.2 mg/kg	<0.2	<0.2	0.0
		ortho-Xylene	0.2 mg/kg	<0.2	<0.2	0.0

Matrix Type: WATER **Laboratory Duplicates (DUP) Report**

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP080/071: Total Petroleum Hydrocarbons						

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Matrix Type: WATER

Laboratory Duplicates (DUP) Report

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EP080/071: Total Petroleum Hydrocarbons - continued						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260023)				µg/L	µg/L	%
ES0610054-005	Anonymous	C6 - C9 Fraction	20 µg/L	<20	<20	0.0
ES0610079-001	Anonymous	C6 - C9 Fraction	20 µg/L	60	40	41.6
EP080: BTEX						
EP080: BTEX - (QC Lot: 260023)				µg/L	µg/L	%
ES0610054-005	Anonymous	Benzene	1 µg/L	<1	<1	0.0
		Toluene	2 µg/L	<2	<2	0.0
		Ethylbenzene	2 µg/L	<2	<2	0.0
		meta- & para-Xylene	2 µg/L	<2	<2	0.0
		ortho-Xylene	2 µg/L	<2	<2	0.0
ES0610079-001	Anonymous	Benzene	1 µg/L	2	2	0.0
		Toluene	2 µg/L	<2	<2	0.0
		Ethylbenzene	2 µg/L	<2	<2	0.0
		meta- & para-Xylene	2 µg/L	<2	<2	0.0
		ortho-Xylene	2 µg/L	<2	<2	0.0

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Quality Control Report - Method Blank (MB) and Laboratory Control Samples (LCS)

The quality control term **Method / Laboratory Blank** refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC type is to monitor potential laboratory contamination. The quality control term **Laboratory Control Sample (LCS)** refers to a known, interference free matrix spiked with target analytes or certified reference material. The purpose of this QC type is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of actual laboratory data. Abbreviations: LOR = Limit of reporting.

Matrix Type: SOIL

Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EG005T: Total Metals by ICP-AES						
EG005T: Total Metals by ICP-AES - (QC Lot: 259253)		mg/kg	mg/kg	%	%	%
Arsenic	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	13.1	103	86.6	123
Cadmium	1 mg/kg	<1	----	----	----	----
	1 mg/kg	----	2.76	97.5	79.9	120
Chromium	2 mg/kg	----	60.9	97.0	87.1	119
	2 mg/kg	<2	----	----	----	----
Copper	5 mg/kg	----	54.7	95.0	85.2	117
	5 mg/kg	<5	----	----	----	----
Lead	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	55.2	93.5	82.1	117
Nickel	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	54.8	99.7	88	122
Zinc	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	104	93.0	79	116
EG005T: Total Metals by ICP-AES - (QC Lot: 259255)		mg/kg	mg/kg	%	%	%
Arsenic	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	13.1	107	86.6	123
Cadmium	1 mg/kg	----	2.76	98.5	79.9	120
	1 mg/kg	<1	----	----	----	----
Chromium	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	60.9	98.9	87.1	119
Copper	5 mg/kg	----	54.7	96.2	85.2	117
	5 mg/kg	<5	----	----	----	----
Lead	5 mg/kg	<5	----	----	----	----
	5 mg/kg	----	55.2	96.0	82.1	117

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EG005T: Total Metals by ICP-AES - continued						
EG005T: Total Metals by ICP-AES - (QC Lot: 259255) - continued		mg/kg	mg/kg	%	%	%
Nickel	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	54.8	101	88	122
Zinc	5 mg/kg	----	104	95.0	79	116
	5 mg/kg	<5	----	----	----	----
EG035T: Total Mercury by FIMS						
EG035T: Total Mercury by FIMS - (QC Lot: 259254)		mg/kg	mg/kg	%	%	%
Mercury	0.1 mg/kg	<0.1	----	----	----	----
	0.1 mg/kg	----	1.4	86.3	73.7	108
EG035T: Total Mercury by FIMS - (QC Lot: 259256)		mg/kg	mg/kg	%	%	%
Mercury	0.1 mg/kg	<0.1	----	----	----	----
	0.1 mg/kg	----	1.4	88.4	73.7	108
EK025G: Free cyanide by Discrete Analyser						
EK025G: Free cyanide by Discrete Analyser - (QC Lot: 259087)		mg/kg	mg/kg	%	%	%
Total Cyanide	1 mg/kg	----	50	98.1	70	130
	1.0 mg/kg	<1.0	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)						
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 259813)		mg/kg	mg/kg	%	%	%
Total Polychlorinated biphenyls	0.1 mg/kg	----	0.5	71.6	57.4	117
	0.10 mg/kg	<0.10	----	----	----	----
EP068A: Organochlorine Pesticides (OC)						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 259814)		mg/kg	mg/kg	%	%	%
4,4'-DDD	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	83.9	65.3	116
4,4'-DDE	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	84.9	67.5	114
4,4'-DDT	0.2 mg/kg	----	0.25	92.9	58.4	127
	0.2 mg/kg	<0.2	----	----	----	----

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 259814) - continued		mg/kg	mg/kg	%	%	%
Aldrin	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	85.3	67	113
alpha-BHC	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	87.1	60.8	116
alpha-Endosulfan	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	85.1	65.8	116
beta-BHC	0.05 mg/kg	----	0.25	89.5	59.8	117
	0.05 mg/kg	<0.05	----	----	----	----
beta-Endosulfan	0.05 mg/kg	----	0.25	86.0	66.1	117
	0.05 mg/kg	<0.05	----	----	----	----
cis-Chlordane	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	85.2	57.3	120
delta-BHC	0.05 mg/kg	----	0.25	86.3	65.8	114
	0.05 mg/kg	<0.05	----	----	----	----
Dieldrin	0.05 mg/kg	----	0.25	86.4	67.4	116
	0.05 mg/kg	<0.05	----	----	----	----
Endosulfan sulfate	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	85.2	63.6	119
Endrin	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	85.7	63	121
Endrin aldehyde	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	80.3	57.3	115
Endrin ketone	0.05 mg/kg	----	0.25	87.4	63.6	117
	0.05 mg/kg	<0.05	----	----	----	----
gamma-BHC	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	86.3	59.8	118
Heptachlor	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	81.5	65.6	115
Heptachlor epoxide	0.05 mg/kg	----	0.25	85.5	65.6	113
	0.05 mg/kg	<0.05	----	----	----	----

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 259814) - continued		mg/kg	mg/kg	%	%	%
Hexachlorobenzene (HCB)	0.05 mg/kg	----	0.25	84.3	59.4	115
	0.05 mg/kg	<0.05	----	----	----	----
Methoxychlor	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	0.25	76.9	50.4	132
trans-Chlordane	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	85.4	60.7	113
EP068B: Organophosphorus Pesticides (OP)						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 259814)		mg/kg	mg/kg	%	%	%
Methyl Azinphos	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	39.5	29.8	137
Bromophos-ethyl	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	83.7	64.3	114
Carbophenothion	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	81.0	59.5	119
Chlorfenvinphos	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	90.6	61.4	123
Chlorpyrifos	0.05 mg/kg	----	0.25	84.7	64.2	111
	0.05 mg/kg	<0.05	----	----	----	----
Chlorpyrifos-methyl	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	82.3	65.1	111
Demeton-S-methyl	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	69.8	10.1	159
Diazinon	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	82.0	64.9	111
Dichlorvos	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	82.3	25.5	124
Dimethoate	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	72.3	48.6	126
Ethion	0.05 mg/kg	----	0.25	83.6	62	116
	0.05 mg/kg	<0.05	----	----	----	----

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068B: Organophosphorus Pesticides (OP) - continued						
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 259814) - continued		mg/kg	mg/kg	%	%	%
Fenamiphos	0.05 mg/kg	<0.05	----	----	----	----
	0.05 mg/kg	----	0.25	79.6	45.5	128
Fenthion	0.05 mg/kg	----	0.25	84.6	64.7	110
	0.05 mg/kg	<0.05	----	----	----	----
Malathion	0.05 mg/kg	----	0.25	81.6	60.4	127
	0.05 mg/kg	<0.05	----	----	----	----
Monocrotophos	0.2 mg/kg	----	0.25	24.3	2.88	149
	0.2 mg/kg	<0.2	----	----	----	----
Parathion	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	0.25	78.5	60	116
Parathion-methyl	0.2 mg/kg	----	0.25	79.7	61.4	113
	0.2 mg/kg	<0.2	----	----	----	----
Pirimphos-ethyl	0.05 mg/kg	----	0.25	82.6	64.8	111
	0.05 mg/kg	<0.05	----	----	----	----
Prothiofos	0.05 mg/kg	----	0.25	85.6	65.4	111
	0.05 mg/kg	<0.05	----	----	----	----
EP075(SIM)A: Phenolic Compounds						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259545)		mg/kg	mg/kg	%	%	%
2,4,5-Trichlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	73.3	68.9	112
2,4,6-Trichlorophenol	0.5 mg/kg	----	4	77.3	62.2	115
	0.5 mg/kg	<0.5	----	----	----	----
2,4-Dichlorophenol	0.5 mg/kg	----	4	87.3	71.6	113
	0.5 mg/kg	<0.5	----	----	----	----
2,4-Dimethylphenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	91.5	74.5	119
2,6-Dichlorophenol	0.5 mg/kg	----	4	94.0	74.8	115
	0.5 mg/kg	<0.5	----	----	----	----
2-Chlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	96.5	80.2	115

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)A: Phenolic Compounds - continued						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259545) - continued		mg/kg	mg/kg	%	%	%
2-Methylphenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	98.7	76.8	114
2-Nitrophenol	0.5 mg/kg	----	4	83.5	60.3	117
	0.5 mg/kg	<0.5	----	----	----	----
3- & 4-Methylphenol	1.0 mg/kg	<1.0	----	----	----	----
	1.0 mg/kg	----	8	98.1	72	119
4-Chloro-3-Methylphenol	0.5 mg/kg	----	4	101	76.4	114
	0.5 mg/kg	<0.5	----	----	----	----
Pentachlorophenol	1.0 mg/kg	----	8	29.9	1.23	91.6
	1.0 mg/kg	<1.0	----	----	----	----
Phenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	98.0	73.9	115
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259801)		mg/kg	mg/kg	%	%	%
2,4,5-Trichlorophenol	0.5 mg/kg	----	4	83.0	68.9	112
	0.5 mg/kg	<0.5	----	----	----	----
2,4,6-Trichlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	77.4	62.2	115
2,4-Dichlorophenol	0.5 mg/kg	----	4	82.2	71.6	113
	0.5 mg/kg	<0.5	----	----	----	----
2,4-Dimethylphenol	0.5 mg/kg	----	4	92.4	74.5	119
	0.5 mg/kg	<0.5	----	----	----	----
2,6-Dichlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	86.7	74.8	115
2-Chlorophenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	91.0	80.2	115
2-Methylphenol	0.5 mg/kg	----	4	90.1	76.8	114
	0.5 mg/kg	<0.5	----	----	----	----
2-Nitrophenol	0.5 mg/kg	----	4	91.7	60.3	117
	0.5 mg/kg	<0.5	----	----	----	----

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)A: Phenolic Compounds - continued						
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259801) - continued		mg/kg	mg/kg	%	%	%
3- & 4-Methylphenol	1.0 mg/kg	<1.0	----	----	----	----
	1.0 mg/kg	----	8	89.2	72	119
4-Chloro-3-Methylphenol	0.5 mg/kg	----	4	87.5	76.4	114
	0.5 mg/kg	<0.5	----	----	----	----
Pentachlorophenol	1.0 mg/kg	----	8	24.8	1.23	91.6
	1.0 mg/kg	<1.0	----	----	----	----
Phenol	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	94.8	73.9	115
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259545)		mg/kg	mg/kg	%	%	%
Acenaphthene	0.5 mg/kg	----	4	102	81.5	112
	0.5 mg/kg	<0.5	----	----	----	----
Acenaphthylene	0.5 mg/kg	----	4	103	79.6	113
	0.5 mg/kg	<0.5	----	----	----	----
Anthracene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	106	81.1	112
Benz(a)anthracene	0.5 mg/kg	----	4	97.4	77.2	112
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	0.5 mg/kg	----	4	101	76.4	113
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(b)fluoranthene	0.5 mg/kg	----	4	97.6	71.8	118
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	107	72.4	114
Benzo(k)fluoranthene	0.5 mg/kg	----	4	120	74.2	117
	0.5 mg/kg	<0.5	----	----	----	----
Chrysene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	103	79.8	114
Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	102	71.7	113

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259545) - continued		mg/kg	mg/kg	%	%	%
Fluoranthene	0.5 mg/kg	----	4	100	78.8	113
	0.5 mg/kg	<0.5	----	----	----	----
Fluorene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	99.2	79.9	112
Indeno(1,2,3,cd)pyrene	0.5 mg/kg	----	4	98.2	71	113
	0.5 mg/kg	<0.5	----	----	----	----
Naphthalene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	96.9	81.9	113
Phenanthrene	0.5 mg/kg	----	4	103	79.4	114
	0.5 mg/kg	<0.5	----	----	----	----
Pyrene	0.5 mg/kg	----	4	100	78.9	113
	0.5 mg/kg	<0.5	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259801)		mg/kg	mg/kg	%	%	%
Acenaphthene	0.5 mg/kg	----	4	97.7	81.5	112
	0.5 mg/kg	<0.5	----	----	----	----
Acenaphthylene	0.5 mg/kg	----	4	96.4	79.6	113
	0.5 mg/kg	<0.5	----	----	----	----
Anthracene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	97.0	81.1	112
Benz(a)anthracene	0.5 mg/kg	----	4	93.8	77.2	112
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	0.5 mg/kg	----	4	94.1	76.4	113
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(b)fluoranthene	0.5 mg/kg	----	4	93.6	71.8	118
	0.5 mg/kg	<0.5	----	----	----	----
Benzo(g,h,i)perylene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	87.2	72.4	114
Benzo(k)fluoranthene	0.5 mg/kg	----	4	98.6	74.2	117
	0.5 mg/kg	<0.5	----	----	----	----

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259801) - continued		mg/kg	mg/kg	%	%	%
Chrysene	0.5 mg/kg	----	4	96.6	79.8	114
	0.5 mg/kg	<0.5	----	----	----	----
Dibenz(a,h)anthracene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	88.3	71.7	113
Fluoranthene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	97.0	78.8	113
Fluorene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	96.2	79.9	112
Indeno(1,2,3,cd)pyrene	0.5 mg/kg	----	4	86.3	71	113
	0.5 mg/kg	<0.5	----	----	----	----
Naphthalene	0.5 mg/kg	<0.5	----	----	----	----
	0.5 mg/kg	----	4	96.2	81.9	113
Phenanthrene	0.5 mg/kg	----	4	95.3	79.4	114
	0.5 mg/kg	<0.5	----	----	----	----
Pyrene	0.5 mg/kg	----	4	99.3	78.9	113
	0.5 mg/kg	<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 258865)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	----	26	69.2	68.4	128
	2 mg/kg	<2	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 258866)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	26	97.4	68.4	128
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259252)		mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	2 mg/kg	<2	----	----	----	----
	2 mg/kg	----	26	100	68.4	128
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259546)		mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	50 mg/kg	<50	----	----	----	----
	50 mg/kg	----	200	94.4	75.2	116

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Matrix Type: SOIL Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons - continued						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259546) - continued		mg/kg	mg/kg	%	%	%
C15 - C28 Fraction	100 mg/kg	<100	----	----	----	----
	100 mg/kg	----	200	95.4	75.3	113
C29 - C36 Fraction	100 mg/kg	----	200	87.3	72.6	117
	100 mg/kg	<100	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259800)		mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	50 mg/kg	<50	----	----	----	----
	50 mg/kg	----	200	85.9	75.2	116
C15 - C28 Fraction	100 mg/kg	----	200	90.6	75.3	113
	100 mg/kg	<100	----	----	----	----
C29 - C36 Fraction	100 mg/kg	----	200	93.5	72.6	117
	100 mg/kg	<100	----	----	----	----
EP080: BTEX						
EP080: BTEX - (QC Lot: 258865)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	----	1	85.3	67.5	125
	0.2 mg/kg	<0.2	----	----	----	----
Ethylbenzene	0.2 mg/kg	----	1	92.9	65.3	126
	0.2 mg/kg	<0.2	----	----	----	----
meta- & para-Xylene	0.2 mg/kg	----	2	94.2	66.5	124
	0.2 mg/kg	<0.2	----	----	----	----
ortho-Xylene	0.2 mg/kg	----	1	96.0	66.7	123
	0.2 mg/kg	<0.2	----	----	----	----
Toluene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	79.5	69	122
EP080: BTEX - (QC Lot: 258866)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	----	1	93.7	67.5	125
	0.2 mg/kg	<0.2	----	----	----	----
Ethylbenzene	0.2 mg/kg	----	1	92.8	65.3	126
	0.2 mg/kg	<0.2	----	----	----	----

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Matrix Type: SOIL **Method Blank (MB) and Laboratory Control Samples (LCS) Report**

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 258866) - continued		mg/kg	mg/kg	%	%	%
meta- & para-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	2	91.0	66.5	124
ortho-Xylene	0.2 mg/kg	----	1	87.8	66.7	123
	0.2 mg/kg	<0.2	----	----	----	----
Toluene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	93.2	69	122
EP080: BTEX - (QC Lot: 259252)		mg/kg	mg/kg	%	%	%
Benzene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	95.9	67.5	125
Ethylbenzene	0.2 mg/kg	----	1	98.8	65.3	126
	0.2 mg/kg	<0.2	----	----	----	----
meta- & para-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	2	101	66.5	124
ortho-Xylene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	98.4	66.7	123
Toluene	0.2 mg/kg	<0.2	----	----	----	----
	0.2 mg/kg	----	1	102	69	122

Matrix Type: WATER **Method Blank (MB) and Laboratory Control Samples (LCS) Report**

		Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
Analyte name	LOR					
EP066: Polychlorinated Biphenyls (PCB)						
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 258775)		µg/L	µg/L	%	%	%
Total Polychlorinated biphenyls	1 µg/L	<1	----	----	----	----
	1 µg/L	----	10	70.4	61.6	107
EP068A: Organochlorine Pesticides (OC)						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 258774)		µg/L	µg/L	%	%	%
4,4'-DDD	0.5 µg/L	----	5	97.1	68.2	117
	0.5 µg/L	<0.5	----	----	----	----

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Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 258774) - continued		µg/L	µg/L	%	%	%
4,4'-DDE	0.5 µg/L	----	5	88.3	68.9	114
	0.5 µg/L	<0.5	----	----	----	----
4,4'-DDT	2 µg/L	<2	----	----	----	----
	2.0 µg/L	----	5	63.9	57.6	123
Aldrin	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	89.5	68.5	114
alpha-BHC	0.5 µg/L	----	5	85.9	59.5	123
	0.5 µg/L	<0.5	----	----	----	----
alpha-Endosulfan	0.5 µg/L	----	5	84.4	68.5	116
	0.5 µg/L	<0.5	----	----	----	----
beta-BHC	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	82.8	59.3	122
beta-Endosulfan	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	89.1	68	117
cis-Chlordane	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	79.4	66.5	117
delta-BHC	0.5 µg/L	----	5	106	68	116
	0.5 µg/L	<0.5	----	----	----	----
Dieldrin	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	87.0	68.8	116
Endosulfan sulfate	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	94.2	65.9	119
Endrin	0.5 µg/L	----	5	81.9	66.2	122
	0.5 µg/L	<0.5	----	----	----	----
Endrin aldehyde	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	85.9	66.6	117
Endrin ketone	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	90.7	65	118
gamma-BHC	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	84.9	59.1	121

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Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 258774) - continued		µg/L	µg/L	%	%	%
Heptachlor	0.5 µg/L	----	5	85.3	67.1	116
	0.5 µg/L	<0.5	----	----	----	----
Heptachlor epoxide	0.5 µg/L	----	5	90.0	69.8	113
	0.5 µg/L	<0.5	----	----	----	----
Hexachlorobenzene (HCB)	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	84.0	58.4	121
Methoxychlor	2 µg/L	<2	----	----	----	----
	2.0 µg/L	----	5	69.0	49.6	134
trans-Chlordane	0.5 µg/L	----	5	76.6	68.3	112
	0.5 µg/L	<0.5	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 258777)		µg/L	µg/L	%	%	%
Acenaphthene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	98.7	62.2	113
Acenaphthylene	0.2 µg/L	----	2	97.5	63.6	114
	0.5 µg/L	<0.5	----	----	----	----
Anthracene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	93.8	64.3	116
Benz(a)anthracene	0.2 µg/L	----	2	94.1	64.1	117
	0.5 µg/L	<0.5	----	----	----	----
Benzo(a)pyrene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	88.2	63.3	117
Benzo(b)fluoranthene	0.2 µg/L	----	2	93.6	61.7	119
	0.5 µg/L	<0.5	----	----	----	----
Benzo(g,h,i)perylene	0.2 µg/L	----	2	104	59.1	118
	0.5 µg/L	<0.5	----	----	----	----
Benzo(k)fluoranthene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	87.0	61.7	117
Chrysene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	87.7	62.5	116

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Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - continued						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 258777) - continued		µg/L	µg/L	%	%	%
Dibenz(a,h)anthracene	0.2 µg/L	----	2	104	61.2	117
	0.5 µg/L	<0.5	----	----	----	----
Fluoranthene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	94.6	63.6	118
Fluorene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	99.4	63.9	115
Indeno(1,2,3,cd)pyrene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	101	59.9	118
Naphthalene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	101	62.4	114
Phenanthrene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	100	62.6	116
Pyrene	0.5 µg/L	<0.5	----	----	----	----
	0.2 µg/L	----	2	96.4	63.1	118
EP080/071: Total Petroleum Hydrocarbons						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 258776)		µg/L	µg/L	%	%	%
C10 - C14 Fraction	50 µg/L	----	200	83.7	58.9	131
	50 µg/L	<50	----	----	----	----
C15 - C28 Fraction	100 µg/L	<100	----	----	----	----
	100 µg/L	----	200	96.2	73.9	138
C29 - C36 Fraction	50 µg/L	----	200	122	62.7	131
	50 µg/L	<50	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260023)		µg/L	µg/L	%	%	%
C6 - C9 Fraction	20 µg/L	<20	----	----	----	----
	20 µg/L	----	260	88.9	75	127
EP080: BTEX						
EP080: BTEX - (QC Lot: 260023)		µg/L	µg/L	%	%	%
Benzene	1 µg/L	<1	----	----	----	----
	1 µg/L	----	10	89.7	76.2	124

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Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	Actual Results		Recovery Limits	
Analyte name	LOR		Spike concentration	Spike Recovery	Dynamic Recovery Limits	
				LCS	Low	High
EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 260023) - continued		µg/L	µg/L	%	%	%
Ethylbenzene	2 µg/L	----	10	96.0	76.1	122
	2 µg/L	<2	----	----	----	----
meta- & para-Xylene	2 µg/L	----	10	96.8	75.7	123
	2 µg/L	<2	----	----	----	----
ortho-Xylene	2 µg/L	----	10	91.0	77.9	121
	2 µg/L	<2	----	----	----	----
Toluene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	10	90.8	74.4	124

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Quality Control Report - Matrix Spikes (MS)

The quality control term **Matrix Spike (MS)** refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC type is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQO's). 'Ideal' recovery ranges stated may be waived in the event of sample matrix interferences. - Anonymous - Client Sample IDs refer to samples which are not specifically part of this work order but formed part of the QC process lot. *Abbreviations: LOR = Limit of Reporting, RPD = Relative Percent Difference.*

* Indicates failed QC

Matrix Type: SOIL **Matrix Spike (MS) Report**

					Actual Results		Recovery Limits	
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration	Sample Result	Spike Recovery	Static Limits	
						MS	Low	High
EG005T: Total Metals by ICP-AES								
EG005T: Total Metals by ICP-AES - (QC Lot: 259253)				mg/kg	mg/kg	%	%	%
Arsenic	ES0609982-001	Anonymous	5 mg/kg	50	<5	88.9	70	130
Cadmium			1 mg/kg	50	<1	97.2	70	130
Chromium			2 mg/kg	50	22	98.6	70	130
Copper			5 mg/kg	250	8	104	70	130
Lead			5 mg/kg	250	25	94.7	70	130
Nickel			2 mg/kg	50	4	98.4	70	130
Zinc			5 mg/kg	250	7	93.0	70	130
EG005T: Total Metals by ICP-AES - (QC Lot: 259255)				mg/kg	mg/kg	%	%	%
Arsenic	ES0610062-009	MG03/0.1	5 mg/kg	50	39	91.2	70	130
Cadmium			1 mg/kg	50	<1	108	70	130
Chromium			2 mg/kg	50	14	111	70	130
Copper			5 mg/kg	250	160	90.4	70	130
Lead			5 mg/kg	250	512	95.4	70	130
Nickel			2 mg/kg	50	13	109	70	130
Zinc			5 mg/kg	250	249	87.6	70	130
EG035T: Total Mercury by FIMS								
EG035T: Total Mercury by FIMS - (QC Lot: 259254)				mg/kg	mg/kg	%	%	%
Mercury	ES0609982-001	Anonymous	0.1 mg/kg	5	<0.1	105	70	130
EG035T: Total Mercury by FIMS - (QC Lot: 259256)				mg/kg	mg/kg	%	%	%
Mercury	ES0610062-009	MG03/0.1	0.1 mg/kg	5	0.7	99.6	70	130
EK025G: Free cyanide by Discrete Analyser								
EK025G: Free cyanide by Discrete Analyser - (QC Lot: 259087)				mg/kg	mg/kg	%	%	%
Total Cyanide	ES0609974-001	Anonymous	1 mg/kg	50	<1.0	107	70	130
EP066: Polychlorinated Biphenyls (PCB)								

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Matrix Type: SOIL Matrix Spike (MS) Report

					Actual Results		Recovery Limits		
Analyte name		Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration	Sample Result	Spike Recovery	Static Limits	
							MS	Low	High
EP066: Polychlorinated Biphenyls (PCB) - continued									
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 259813)					mg/kg	mg/kg	%	%	%
Total Polychlorinated biphenyls	ES0610062-015	TP05/0.5		0.1 mg/kg	0.5	<0.10	86.0	70	130
EP068A: Organochlorine Pesticides (OC)									
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 259814)					mg/kg	mg/kg	%	%	%
gamma-BHC	ES0610062-015	TP05/0.5		0.05 mg/kg	0.25	<0.05	76.7	75.65	110.44
Heptachlor				0.05 mg/kg	0.25	<0.05	85.0	72.2	106.71
Aldrin				0.05 mg/kg	0.25	<0.05	85.0	77.54	107.0
Dieldrin				0.05 mg/kg	0.25	<0.05	83.6	76.37	109.7
Endrin				0.05 mg/kg	1	<0.05	70.6	68.51	119.47
4,4'-DDT				0.2 mg/kg	1	<0.2	84.2	67.12	118.10
EP068B: Organophosphorus Pesticides (OP)									
EP068B: Organophosphorus Pesticides (OP) - (QC Lot: 259814)					mg/kg	mg/kg	%	%	%
Diazinon	ES0610062-015	TP05/0.5		0.05 mg/kg	0.25	<0.05	78.8	75.85	107.06
Chlorpyrifos-methyl				0.05 mg/kg	0.25	<0.05	78.6	74.84	107.91
Pirimphos-ethyl				0.05 mg/kg	0.25	<0.05	63.2	67.98	109.42
Bromophos-ethyl				0.05 mg/kg	0.25	<0.05	76.4	74.94	107.37
Prothiofos				0.05 mg/kg	0.25	<0.05	76.3	75.45	106.05
EP075(SIM)A: Phenolic Compounds									
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259545)					mg/kg	mg/kg	%	%	%
Phenol	ES0610062-001	MG02/0.2		0.5 mg/kg	10	<0.5	89.8	70	130
2-Chlorophenol				0.5 mg/kg	10	<0.5	91.1	70	130
2-Nitrophenol				0.5 mg/kg	10	<0.5	87.3	60	130
4-Chloro-3-Methylphenol				0.5 mg/kg	10	<0.5	99.0	70	130
Pentachlorophenol				2.0 mg/kg	10	<2.0	98.2	20	130
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259801)					mg/kg	mg/kg	%	%	%
Phenol	ES0610062-021	TP06/1.0		0.5 mg/kg	10	<0.5	78.7	70	130
2-Chlorophenol				0.5 mg/kg	10	<0.5	79.0	70	130
2-Nitrophenol				0.5 mg/kg	10	<0.5	81.6	60	130
4-Chloro-3-Methylphenol				0.5 mg/kg	10	<0.5	79.1	70	130

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Matrix Type: SOIL

Matrix Spike (MS) Report

					Actual Results		Recovery Limits		
Analyte name		Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration	Sample Result	Spike Recovery	Static Limits	
							MS	Low	High
EP075(SIM)A: Phenolic Compounds - continued									
EP075(SIM)A: Phenolic Compounds - (QC Lot: 259801) - continued					mg/kg	mg/kg	%	%	%
Pentachlorophenol	ES0610062-021	TP06/1.0	2.0 mg/kg	10	<2.0	78.8	20	130	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259545)					mg/kg	mg/kg	%	%	%
Acenaphthene	ES0610062-001	MG02/0.2	0.5 mg/kg	10	<0.5	110	70	130	
Pyrene			0.5 mg/kg	10	<0.5	105	70	130	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 259801)					mg/kg	mg/kg	%	%	%
Acenaphthene	ES0610062-021	TP06/1.0	0.5 mg/kg	10	<0.5	89.8	70	130	
Pyrene			0.5 mg/kg	10	1.7	105	70	130	
EP080/071: Total Petroleum Hydrocarbons									
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 258865)					mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0610062-004	MG02/3.3	2 mg/kg	26	<2	73.3	70	130	
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 258866)					mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0610062-023	TP07/0.25	2 mg/kg	26	<2	72.7	70	130	
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259252)					mg/kg	mg/kg	%	%	%
C6 - C9 Fraction	ES0610058-002	Anonymous	2 mg/kg	26	<2	88.4	70	130	
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259546)					mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	ES0610062-001	MG02/0.2	50 mg/kg	700	290	94.4	70	130	
C15 - C28 Fraction			100 mg/kg	3400	<100	114	70	130	
C29 - C36 Fraction			100 mg/kg	3600	<100	113	70	130	
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 259800)					mg/kg	mg/kg	%	%	%
C10 - C14 Fraction	ES0610062-021	TP06/1.0	50 mg/kg	700	<50	101	70	130	
C15 - C28 Fraction			100 mg/kg	3400	<100	126	70	130	
C29 - C36 Fraction			100 mg/kg	3600	<100	111	70	130	
EP080: BTEX									
EP080: BTEX - (QC Lot: 258865)					mg/kg	mg/kg	%	%	%
Benzene	ES0610062-004	MG02/3.3	0.2 mg/kg	2.5	<0.2	103	70	130	
Toluene			0.2 mg/kg	2.5	<0.2	88.6	70	130	
Ethylbenzene			0.2 mg/kg	2.5	<0.2	102	70	130	

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Matrix Type: SOIL Matrix Spike (MS) Report

					Actual Results		Recovery Limits	
					Sample Result	Spike Recovery	Static Limits	
						MS	Low	High
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration				
EP080: BTEX - continued								
EP080: BTEX - (QC Lot: 258865) - continued				mg/kg	mg/kg	%	%	%
meta- & para-Xylene	ES0610062-004	MG02/3.3	0.2 mg/kg	2.5	<0.2	101	70	130
ortho-Xylene			0.2 mg/kg	2.5	<0.2	103	70	130
EP080: BTEX - (QC Lot: 258866)				mg/kg	mg/kg	%	%	%
Benzene	ES0610062-023	TP07/0.25	0.2 mg/kg	2.5	<0.2	77.3	70	130
Toluene			0.2 mg/kg	2.5	<0.2	71.8	70	130
Ethylbenzene			0.2 mg/kg	2.5	<0.2	78.7	70	130
meta- & para-Xylene			0.2 mg/kg	2.5	<0.2	78.9	70	130
ortho-Xylene			0.2 mg/kg	2.5	<0.2	76.0	70	130
EP080: BTEX - (QC Lot: 259252)				mg/kg	mg/kg	%	%	%
Benzene	ES0610058-002	Anonymous	0.2 mg/kg	2.5	<0.2	93.3	70	130
Toluene			0.2 mg/kg	2.5	<0.2	94.3	70	130
Ethylbenzene			0.2 mg/kg	2.5	<0.2	97.8	70	130
meta- & para-Xylene			0.2 mg/kg	2.5	<0.2	99.1	70	130
ortho-Xylene			0.2 mg/kg	2.5	<0.2	96.0	70	130

Matrix Type: WATER Matrix Spike (MS) Report

					Actual Results		Recovery Limits		
					Sample Result	Spike Recovery	Static Limits		
Analyte name	Laboratory Sample ID	Client Sample ID	LOR	Spike Concentration		MS	Low	High	
EP080/071: Total Petroleum Hydrocarbons									
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 260023)					µg/L	µg/L	%	%	%
C6 - C9 Fraction	ES0610079-001	Anonymous	20 µg/L	250	60	90.0	70	130	
EP080: BTEX									
EP080: BTEX - (QC Lot: 260023)					µg/L	µg/L	%	%	%
Benzene	ES0610079-001	Anonymous	1 µg/L	25	2	106	70	130	
Toluene			2 µg/L	25	<2	106	70	130	
Ethylbenzene			2 µg/L	25	<2	109	70	130	
meta- & para-Xylene			2 µg/L	25	<2	113	70	130	
ortho-Xylene			2 µg/L	25	<2	107	70	130	

INTERPRETIVE QUALITY CONTROL REPORT

Client	: CH2M HILL PTY LTD	Laboratory	: ALS Environmental Sydney	Page	: 1 of 12
Contact	: MR ADAM SULLIVAN	Contact	: Greg Vogel		
Address	: PO BOX 5392 CHATSWOOD NSW AUSTRALIA 1515	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164	Work order	: ES0610062
				Amendment No.	:
Project	: 347496 McDonalddtown Gasworks	Quote number	: ----	Date received	: 16 Aug 2006
Order number	: - Not provided -			Date issued	: 28 Aug 2006
C-O-C number	: - Not provided -				
Site	: MACDONALDTOWN				
E-mail	: adam.sullivan@ch2m.com.au	E-mail	: Greg.Vogel@alsenviro.com	No. of samples	
Telephone	: 02 9950 0200	Telephone	: +61 (02) 8784 8555	Received	: 59
Facsimile	: 02 9950 0600	Facsimile	: +61 (02) 8784 8500	Analysed	: 39

This Interpretive Quality Control Report was issued on 28 Aug 2006 for the ALS work order reference ES0610062 and supersedes any previous reports with this reference.

This report contains the following information:

- 1 Analysis Holding Time Compliance
- 1 Quality Control Type Frequency Compliance
- 1 Summary of all Quality Control Outliers
- 1 Brief Method Summaries

Client : CH2M HILL PTY LTD
 Project : 347496 McDonaldtown Gasworks

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Interpretive Quality Control Report - Analysis Holding Time

The following report summarises extraction / preparation and analysis times and compares with recommended holding times. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. Information is also provided re the sample container (preservative) from which the sample aliquot was taken. Elapsed time to analysis represents time from sampling where no extraction / digestion is involved or time from extraction / digestion where this is present. For composite samples, sampling date/time is taken as that of the oldest sample contributing to that composite. Sample date/time for laboratory produced leaches are taken from the completion date/time of the leaching process. Outliers for holding time are based on USEPA SW846, APHA, AS and NEPM (1999). Failed outliers, refer to the 'Summary of Outliers'.

Matrix Type: SOIL		Analysis Holding Time and Preservation						
Method		Date Sampled	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Pass?	Date analysed	Due for analysis	Pass?
EA055-103: Moisture Content								
Soil Glass Jar - Unpreserved		16 Aug 2006	----	----	----	22 Aug 2006	23 Aug 2006	Pass
MG02/0.2,	MG02/1.8,							
MG02/4.7,	TRIP BLANK 2,							
TRIP SPIKE 2,	TP02/4.5,							
MG03/0.1,	TP04/0.5,							
TP04/0.7,	TP04/3.0,							
TP05/0.25,	TP05/0.5,							
TP05/1.5,	TP05/2.0,							
DUP03,	TP06/0.5,							
TP06/1.0,	TP06/2.5,							
TP07/0.5,	TP07/1.5,							
TP07/2.0,	TP08/0.5,							
TP08/1.0,	TP08/2.0,							
DUP04,	TP09/0.5,							
TP09/2.5,	TP10/1.0,							
TP10/2.0,	TP10/4.0,							
DUP05,								
TAR WELL #2,	TRIP SPIKE CONTROL							
EG005T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved		16 Aug 2006	19 Aug 2006	12 Feb 2007	Pass	21 Aug 2006	12 Feb 2007	Pass
MG02/1.8,	TP02/4.5,							
MG03/0.1,	TP04/0.7,							
TP05/0.5,	TP05/1.5,							
TP06/1.0,	TP07/0.5,							
TP08/0.5,	TP08/1.0,							
TP08/2.0,	TP09/1.0,							
TP09/2.5,	TP10/1.0,							
TP10/2.0,	TP10/4.0,							
DUP04,	DUP05,							
TAR WELL #2								
EG035T: Total Mercury by FIMS								

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Matrix Type: SOIL **Analysis Holding Time and Preservation**

Method Container / Client Sample ID(s)	Date Sampled	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Pass?	Date analysed	Due for analysis	Pass?
EG035T: Total Mercury by FIMS - continued							
Soil Glass Jar - Unpreserved							
MG02/1.8, TP02/4.5, MG03/0.1, TP04/0.7, TP05/0.5, TP05/1.5, TP06/1.0, TP07/0.5, TP08/0.5, TP08/1.0, TP08/2.0, TP09/1.0, TP09/2.5, TP10/1.0, TP10/2.0, TP10/4.0, DUP04, DUP05, TAR WELL #2	16 Aug 2006	19 Aug 2006	13 Sep 2006	Pass	22 Aug 2006	13 Sep 2006	Pass
EK026G: Total Cyanide By Discrete Analyser							
Soil Glass Jar - Unpreserved							
MG02/1.8, TP06/0.5, TP06/1.0, TP07/0.5, TP08/0.5, TP08/1.0, TP09/1.0, TP10/1.0, TP10/2.0, TAR WELL #2	16 Aug 2006	21 Aug 2006	12 Feb 2007	Pass	21 Aug 2006	12 Feb 2007	Pass
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved							
MG02/1.8, MG03/0.1, TP05/0.5, TP06/1.0, TP08/0.5, TP10/1.0, TAR WELL #2	16 Aug 2006	21 Aug 2006	30 Aug 2006	Pass	22 Aug 2006	30 Sep 2006	Pass
EP068: Pesticides by GCMS							
Soil Glass Jar - Unpreserved							
MG02/1.8, TP02/4.5, MG03/0.1, TP04/0.7, TP05/0.5, TP06/1.0, TP08/0.5, TP10/1.0, TAR WELL #2	16 Aug 2006	21 Aug 2006	30 Aug 2006	Pass	22 Aug 2006	30 Sep 2006	Pass
EP071: TPH - Semivolatile Fraction							
Soil Glass Jar - Unpreserved							
MG02/0.2, MG02/1.8, MG02/4.7, TRIP BLANK 2, TRIP SPIKE 2, TP02/4.5, MG03/0.1, TP04/0.5, TP04/0.7, TP04/3.0, TP05/0.5, TP05/1.5, TP05/2.0, DUP03, TP06/0.5	16 Aug 2006	21 Aug 2006	30 Aug 2006	Pass	22 Aug 2006	30 Sep 2006	Pass

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Matrix Type: SOIL **Analysis Holding Time and Preservation**

Method Container / Client Sample ID(s)	Date Sampled	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Pass?	Date analysed	Due for analysis	Pass?
EP071: TPH - Semivolatile Fraction - continued							
Soil Glass Jar - Unpreserved TP06/1.0, TP07/0.5, TP07/2.0, TP08/1.0, TP09/0.5, TP09/2.5, TP10/2.0, DUP04, TAR WELL #2, TP06/2.5, TP07/1.5, TP08/0.5, TP08/2.0, TP09/1.0, TP10/1.0, TP10/4.0, DUP05, TRIP SPIKE CONTROL	16 Aug 2006	22 Aug 2006	30 Aug 2006	Pass	22 Aug 2006	1 Oct 2006	Pass
EP075(SIM): PAH/Phenols (SIM)							
Soil Glass Jar - Unpreserved MG02/0.2, MG02/4.7, MG03/0.1, TP04/0.7, TP05/0.25, TP05/1.5, DUP03, TP06/0.5 MG02/1.8, TP02/4.5, TP04/0.5, TP04/3.0, TP05/0.5, TP05/2.0, TP06/0.25,	16 Aug 2006	21 Aug 2006	30 Aug 2006	Pass	22 Aug 2006	30 Sep 2006	Pass
Soil Glass Jar - Unpreserved TP06/1.0, TP07/0.5, TP07/2.0, TP08/0.5, TP08/2.0, TP09/1.0, TP10/1.0, TP10/4.0, DUP05, TP06/2.5, TP07/1.5, TP08/0.25, TP08/1.0, TP09/0.5, TP09/2.5, TP10/2.0, DUP04, TAR WELL #2	16 Aug 2006	22 Aug 2006	30 Aug 2006	Pass	23 Aug 2006	1 Oct 2006	Pass
EP080: TPH Volatiles/BTEX							
Soil Glass Jar - Unpreserved TP06/1.0, TP07/0.5, TP07/2.0, TP08/1.0, TP09/0.5, TP09/2.5, TP10/2.0, DUP04, TP06/2.5, TP07/1.5, TP08/0.5, TP08/2.0, TP09/1.0, TP10/1.0, TP10/4.0, DUP05	16 Aug 2006	18 Aug 2006	30 Aug 2006	Pass	20 Aug 2006	30 Aug 2006	Pass

Client : CH2M HILL PTY LTD
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Matrix Type: SOIL **Analysis Holding Time and Preservation**

Method	Date Sampled	Extraction / Preparation			Analysis			
Container / Client Sample ID(s)		Date extracted	Due for extraction	Pass?	Date analysed	Due for analysis	Pass?	
EP080: TPH Volatiles/BTEX - continued								
Soil Glass Jar - Unpreserved MG02/0.2, MG02/4.7, TRIP SPIKE 2, MG03/0.1, TP04/0.7, TP05/0.5, TP05/2.0, TP06/0.5	MG02/1.8, TRIP BLANK 2, TP02/4.5, TP04/0.5, TP04/3.0, TP05/1.5, DUP03,	16 Aug 2006	18 Aug 2006	30 Aug 2006	Pass	21 Aug 2006	30 Aug 2006	Pass
Soil Glass Jar - Unpreserved TAR WELL #2,	TRIP SPIKE CONTROL	16 Aug 2006	19 Aug 2006	30 Aug 2006	Pass	22 Aug 2006	30 Aug 2006	Pass

Matrix Type: WATER **Analysis Holding Time and Preservation**

Method	Date Sampled	Extraction / Preparation			Analysis			
Container / Client Sample ID(s)		Date extracted	Due for extraction	Pass?	Date analysed	Due for analysis	Pass?	
EP066: Polychlorinated Biphenyls (PCB)								
Amber Glass Bottle - Unpreserved W01, W03	W02,	16 Aug 2006	18 Aug 2006	23 Aug 2006	Pass	21 Aug 2006	27 Sep 2006	Pass
EP068: Pesticides								
Amber Glass Bottle - Unpreserved W01, W03	W02,	16 Aug 2006	18 Aug 2006	23 Aug 2006	Pass	21 Aug 2006	27 Sep 2006	Pass
EP071: TPH - Semivolatile Fraction								
Amber Glass Bottle - Unpreserved W01, W03	W02,	16 Aug 2006	18 Aug 2006	23 Aug 2006	Pass	21 Aug 2006	27 Sep 2006	Pass
EP075(SIM): PAH/Phenols (GC/MS - SIM)								
Amber Glass Bottle - Unpreserved W01, W03	W02,	16 Aug 2006	18 Aug 2006	23 Aug 2006	Pass	21 Aug 2006	27 Sep 2006	Pass
EP080: TPH Volatiles/BTEX								
Amber VOC Vial - HCl or NaHSO4 W01, W03	W02,	16 Aug 2006	----	----	----	22 Aug 2006	30 Aug 2006	Pass