

Client : SINCLAIR KNIGHT MERZ
Project : EN01669Work Order : ES0501668
ALS Quote Reference : ----Page Number : 13 of 21
Issue Date : 17 Mar 2005

Analytical Results

Client Sample ID :

Sample Matrix Type / Description :
Sample Date / Time :

Laboratory Sample ID :

Analyte	CAS number	LOI	Units	MW36D WATER / WATER 3 Mar 2005 0:00 ES0501668-006	MW36D WATER / WATER 3 Mar 2005 0:00 ES0501668-007	DUP4 WATER / WATER 4 Mar 2005 0:00 ES0501668-008	TRIP SPIKE WATER / WATER 4 Mar 2005 0:00 ES0501668-009	RINSATE 1 WATER / WATER 4 Mar 2005 0:00 ES0501668-010
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Phenanthrene	85-01-8	1.0	µg/L	----	----	<1.0	----	<1.0
Anthracene	120-12-7	1.0	µg/L	----	----	<1.0	----	<1.0
Fluoranthene	206-44-0	1.0	µg/L	----	----	<1.0	----	<1.0
Pyrene	129-00-0	1.0	µg/L	----	----	<1.0	----	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L	----	----	<1.0	----	<1.0
Chrysene	218-01-9	1.0	µg/L	----	----	<1.0	----	<1.0
Benzo(b)fluoranthene	205-99-2	1.0	µg/L	----	----	<1.0	----	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	----	----	<1.0	----	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L	----	----	<0.5	----	<0.5
Indeno(1,2,3-cd)pyrene	193-39-5	1.0	µg/L	----	----	<1.0	----	<1.0
Dibenz(a,h)anthracene	53-70-3	1.0	µg/L	----	----	<1.0	----	<1.0
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L	----	----	<1.0	----	<1.0
EP075A: Phenolic Compounds								
Phenol	108-95-2	2	µg/L	<2	<2	----	----	----
2-Chlorophenol	95-57-8	2	µg/L	<2	<2	----	----	----
2-Methylphenol	95-48-7	2	µg/L	<2	<2	----	----	----
3- & 4-Methylphenol	1319-77-3	2	µg/L	<2	<2	----	----	----
2-Nitrophenol	88-75-5	2	µg/L	<2	<2	----	----	----
2,4-Dimethylphenol	105-67-9	2	µg/L	<2	<2	----	----	----
2,4-Dichlorophenol	120-83-2	2	µg/L	<2	<2	----	----	----
2,6-Dichlorophenol	87-65-0	2	µg/L	<2	<2	----	----	----
4-Chloro-3-Methylphenol	59-50-7	2	µg/L	<2	<2	----	----	----
2,4,6-Trichlorophenol	88-06-2	2	µg/L	<2	<2	----	----	----
2,4,5-Trichlorophenol	95-95-4	2	µg/L	<2	<2	----	----	----
Pentachlorophenol	87-86-5	4	µg/L	<4	<4	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	2	µg/L	<2	12	----	----	----
2-Methylnaphthalene	91-57-6	2	µg/L	<2	2	----	----	----
2-Chloronaphthalene	91-58-7	2	µg/L	<2	<2	----	----	----
Acenaphthylene	208-96-8	2	µg/L	<2	<2	----	----	----
Acenaphthene	83-32-9	2	µg/L	<2	<2	----	----	----
Fluorene	86-73-7	2	µg/L	<2	<2	----	----	----
Phenanthrene	85-01-8	2	µg/L	<2	2	----	----	----
Anthracene	120-12-7	2	µg/L	<2	<2	----	----	----
Fluoranthene	206-44-0	2	µg/L	<2	<2	----	----	----
Pyrene	129-00-0	2	µg/L	<2	<2	----	----	----



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Analytical Results

Client Sample ID :		MW36D	MW38D	DUP4	TRIP SPIKE	RINSATE 1
Sample Matrix Type / Description :		WATER / WATER	WATER / WATER	WATER / WATER	WATER / WATER	WATER / WATER
Sample Date / Time :		3 Mar 2005	3 Mar 2005	4 Mar 2005	4 Mar 2005	4 Mar 2005
Laboratory Sample ID :		ES0501668-006	ES0501668-007	ES0501668-008	ES0501668-009	ES0501668-010
Analyte	CAS number	LOR	Units			
EP075B: Polynuclear Aromatic Hydrocarbons						
N-2-Fluorenyl Acetamide	53-96-3	2	µg/L	<2	<2	<2
Benz(a)anthracene	56-55-3	2	µg/L	<2	<2	<2
Chrysene	218-01-9	2	µg/L	<2	<2	<2
Benzo(b) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L	<4	<4	<4
7,12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L	<2	<2	<2
Benzo(a)pyrene	50-32-8	2	µg/L	<2	<2	<2
3-Methylcholanthrene	56-49-5	2	µg/L	<2	<2	<2
Indeno(1,2,3-cd)pyrene	193-39-5	2	µg/L	<2	<2	<2
Dibenz(a,h)anthracene	53-70-3	2	µg/L	<2	<2	<2
Benzo(g,h,i)perylene	191-24-2	2	µg/L	<2	<2	<2
EP075C: Phthalate Esters						
Dimethyl phthalate	131-11-3	2	µg/L	<2	<2	<2
Diethyl phthalate	84-66-2	2	µg/L	<2	<2	<2
Di-n-butyl phthalate	84-74-2	2	µg/L	<2	<2	<2
Butyl benzyl phthalate	85-68-7	2	µg/L	2	2	2
bis(2-ethylhexyl) phthalate	117-81-7	20	µg/L	40	<20	<20
Di-n-octylphthalate	117-84-0	2	µg/L	<2	<2	<2
EP075D: Nitrosamines						
N-Nitrosomethylethylamine	10595-95-6	2	µg/L	<2	<2	<2
N-Nitrosodimethylamine	55-18-5	2	µg/L	<2	<2	<2
N-Nitrosopyrrolidine	930-55-2	4	µg/L	<4	<4	<4
N-Nitrosomorpholine	59-89-2	2	µg/L	<2	<2	<2
N-Nitrosodi-n-propylamine	621-64-7	2	µg/L	<2	<2	<2
N-Nitrosopiperidine	100-75-4	2	µg/L	<2	<2	<2
N-Nitrosodibutylamine	924-16-3	2	µg/L	<2	<2	<2
N-Nitrosodiphenyl & Diphenylamine	86-30-6	4	µg/L	<4	<4	<4
Methapyrene	91-80-5	2	µg/L	<2	<2	<2
EP075E: Nitroaromatics and Ketones						
2-Picoline	109-06-8	2	µg/L	<2	<2	<2
Acetophenone	98-86-2	2	µg/L	<2	<2	<2
Nitrobenzene	98-95-3	2	µg/L	<2	<2	<2
Isophorone	78-59-1	2	µg/L	<2	<2	<2
2,6-Dinitrotoluene	606-20-2	4	µg/L	<4	<4	<4
2,4-Dinitrotoluene	121-14-2	4	µg/L	<4	<4	<4
1-Naphthylamine	134-32-7	2	µg/L	<2	<2	<2
4-Nitroquinoline-N-oxide	56-57-5	2	µg/L	<2	<2	<2

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Client Sample ID :		MW36D	MW38D	DUP4	TRIP SPIKE	RINSATE 1
Sample Matrix Type / Description : Sample Date / Time :		WATER / WATER 3 Mar 2005 0:00	WATER / WATER 3 Mar 2005 0:00	WATER / WATER 4 Mar 2005 0:00	WATER / WATER 4 Mar 2005 0:00	WATER / WATER 4 Mar 2005 0:00
Laboratory Sample ID :		ES0501668-006	ES0501668-007	ES0501668-008	ES0501668-009	ES0501668-010
Analyte	CAS number	Units				
EP075E: Nitroaromatics and Ketones						
5-Nitro-o-toluidine	99-55-8	2 µg/L	<2			
Azobenzene	103-33-3	2 µg/L	<2			
1,3,5-Trinitrobenzene	99-35-4	2 µg/L	<2			
Phenacetyl	62-44-2	2 µg/L	<2			
4-Aminobiphenyl	92-67-1	2 µg/L	<2			
Pentachloronitrobenzene	82-68-8	2 µg/L	<2			
Pronamide	23950-58-5	2 µg/L	<2			
Dimethylaminoazobenzene	60-11-7	2 µg/L	<2			
Chlorobenzilate	510-15-6	2 µg/L	<2			
EP075F: Halobenzenes						
Bis(2-chloroethyl) ether	111-44-4	2 µg/L	<2			
Bis(2-chloroethoxy) methane	111-91-1	2 µg/L	<2			
4-Chlorophenyl phenyl ether	7005-72-3	2 µg/L	<2			
4-Bromophenyl phenyl ether	101-55-3	2 µg/L	<2			
EP075G: Chlorinated Hydrocarbons						
1,4-Dichlorobenzene	106-46-7	2 µg/L	<2			
1,3-Dichlorobenzene	541-73-1	2 µg/L	<2			
1,2-Dichlorobenzene	95-50-1	2 µg/L	<2			
Hexachloroethane	67-72-1	2 µg/L	<2			
1,2,4-Trichlorobenzene	120-82-1	2 µg/L	<2			
Hexachloropropylene	1886-71-7	2 µg/L	<2			
Hexachlorobutadiene	87-68-3	2 µg/L	<2			
Hexachlorocyclopentadiene	77-47-4	10 µg/L	<10			
Pentachlorobenzene	608-93-5	2 µg/L	<2			
Hexachlorobenzene (HCB)	118-74-1	4 µg/L	<4			
EP075H: Anilines and Benzidines						
Aniline	62-53-3	2 µg/L	<2			
4-Chloroaniline	106-47-8	2 µg/L	<2			
2-Nitroaniline	88-74-4	4 µg/L	<4			
3-Nitroaniline	99-09-2	4 µg/L	<4			
Dibenzofuran	132-64-9	2 µg/L	<2			
4-Nitroaniline	100-01-6	2 µg/L	<2			
Carbazole	86-74-8	2 µg/L	<2			
3,3'-Dichlorobenzidine	91-94-1	2 µg/L	<2			
EP075I: Organochlorine Pesticides						
alpha-BHC	319-84-6	2 µg/L	<2			



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Analytical Results

Analytical Results											
Client Sample ID :											
Sample Matrix Type / Description : Sample Date / Time :											
Laboratory Sample ID :											
Analyte	CAS number	LOI	Units	MW36D WATER / WATER 3 Mar 2005 0:00 ES0501668-006	MW38D WATER / WATER 3 Mar 2005 0:00 ES0501668-007	DUP4 WATER / WATER 4 Mar 2005 0:00 ES0501668-008	TRIP SPIKE WATER / WATER 4 Mar 2005 0:00 ES0501668-009	RINSATE 1 WATER / WATER 4 Mar 2005 0:00 ES0501668-010			
EP075I: Organochlorine Pesticides											
beta-BHC	319-85-7	2	µg/L	<2	<2						
gamma-BHC	58-89-9	2	µg/L	<2	<2						
delta-BHC	319-86-8	2	µg/L	<2	<2						
Heptachlor	76-44-8	2	µg/L	<2	<2						
Aldrin	309-00-2	2	µg/L	<2	<2						
Heptachlor epoxide	1024-57-3	2	µg/L	<2	<2						
alpha-Endosulfan	959-98-8	2	µg/L	<2	<2						
4,4'-DDE	72-55-9	2	µg/L	<2	<2						
Dieldrin	60-57-1	2	µg/L	<2	<2						
Endrin	72-20-8	2	µg/L	<2	<2						
beta-Endosulfan	33213-65-9	2	µg/L	<2	<2						
4,4'-DDD	72-54-8	2	µg/L	<2	<2						
Endosulfan sulfate	1031-07-8	2	µg/L	<2	<2						
4,4'-DDT	50-29-3	4	µg/L	<4	<4						
EP075J: Organophosphorus Pesticides											
Dichlorvos	62-73-7	2	µg/L	<2	<2						
Dimethoate	60-51-5	2	µg/L	<2	<2						
Diazinon	333-41-5	2	µg/L	<2	<2						
Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2	<2						
Malathion	121-75-5	2	µg/L	<2	<2						
Fenthion	55-38-9	2	µg/L	<2	<2						
Chlorpyrifos	2921-88-2	2	µg/L	<2	<2						
Phosphos-ethyl	23505-41-1	2	µg/L	<2	<2						
Chlorfenvinphos	470-90-6	2	µg/L	<2	<2						
Prothiofos	34643-46-4	2	µg/L	<2	<2						
Ethion	563-12-2	2	µg/L	<2	<2						
EP075K: Miscellaneous Compounds											
1,3,5-Trichlorobenzene	108-70-3	2	µg/L	<2	<2						
1,2,4,5-Tetrachlorobenzene	95-94-3	2	µg/L	<2	<2						
Methanesulfonate methyl	66-27-3	2	µg/L	<2	<2						
Methanesulfonate ethyl	62-50-0	2	µg/L	<2	<2						
cis-Isosafrole	17627-76-8	2	µg/L	<2	<2						
trans-Isosafrole	4043-71-4	2	µg/L	<2	<2						
Safrole	94-59-7	2	µg/L	<2	<2						
Diallyl	2303-16-4	2	µg/L	<2	<2						
2,3,4,6-Tetrachlorophenol	58-90-2	2	µg/L	<2	<2						

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Analytical Results

Analytical Results									
Client Sample ID :		Sample Matrix Type / Description :		Sample Date / Time :		Laboratory Sample ID :		RINSATE 1	
Analyte	CAS number	LOR	Units	MW36D	MW38D	DUP4	TRIP SPIKE	WATER / WATER	
				WATER / WATER 3 Mar 2005 0:00 ES0501668-006	WATER / WATER 3 Mar 2005 0:00 ES0501668-007	WATER / WATER 4 Mar 2005 0:00 ES0501668-008	WATER / WATER 4 Mar 2005 0:00 ES0501668-009	WATER / WATER 4 Mar 2005 0:00 ES0501668-010	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction		20	µg/L	<20	<20	<20	----	<20	<20
C10 - C14 Fraction		50	µg/L	<50	200	170	----	<50	<50
C15 - C28 Fraction		100	µg/L	400	300	600	----	<100	<100
C29 - C36 Fraction		50	µg/L	<50	<50	<50	----	<50	<50
EP080: BTEX									
Benzene	71-43-2	1	µg/L	----	----	<1	20	<1	<1
Toluene	108-88-3	2	µg/L	----	----	<2	18	<2	<2
Ethylbenzene	100-41-4	2	µg/L	----	----	<2	19	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	----	----	<2	19	<2	<2
ortho-Xylene	95-47-6	2	µg/L	----	----	<2	20	<2	<2
EP074S: VOC Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	101	101	----	----	----	----
Toluene-D8	2037-26-5	0.1	%	93.7	93.6	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.1	%	98.2	99.2	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
2-Fluorophenol	367-12-4	0.1	%	----	----	49.2	----	46.4	46.4
Phenol-d6	13127-88-3	0.1	%	----	----	39.9	----	39.2	39.2
2-Chlorophenol-D4	93951-73-6	0.1	%	----	----	85.6	----	70.1	70.1
2,4,6-Tribromophenol	118-79-6	0.1	%	----	----	93.8	----	65.4	65.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.1	%	----	----	68.8	----	65.2	65.2
Anthracene-d10	1719-06-8	0.1	%	----	----	66.6	----	62.5	62.5
4-Terphenyl-d14	1718-51-0	0.1	%	----	----	70.5	----	60.4	60.4
EP075S: Acid Extractable Surrogates									
2-Fluorophenol	367-12-4	0.1	%	68.9	59.4	----	----	----	----
Phenol-d6	13127-88-3	0.1	%	43.5	42.0	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.1	%	87.3	84.5	----	----	----	----
2,4,6-Tribromophenol	118-79-6	0.1	%	94.9	90.9	----	----	----	----
EP075T: Base/Neutral Extractable Surrogates									
Nitrobenzene-D5	4165-60-0	0.1	%	94.2	98.2	----	----	----	----
1,2-Dichlorobenzene-D4	2199-69-1	0.1	%	65.6	63.2	----	----	----	----
2-Fluorobiphenyl	321-60-8	0.1	%	65.7	64.3	----	----	----	----
Anthracene-d10	1719-06-8	0.1	%	76.4	74.2	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.1	%	76.3	72.4	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	101	101	104	96.3	103	103



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Analytical Results

Client Sample ID :

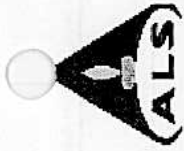
Sample Matrix Type / Description :
Sample Date / Time :

Laboratory Sample ID :

Analyte	CAS number	LOR	Units
EP080S: TPH(V)/BTEX Surrogates	2037-26-5	0.1	%
Toluene-D8	460-00-4	0.1	%

MW36D	MW38D	DUP4	TRIP SPIKE	RINSATE 1
WATER / WATER 3 Mar 2005 0:00 ES0501668-006	WATER / WATER 3 Mar 2005 0:00 ES0501668-007	WATER / WATER 4 Mar 2005 0:00 ES0501668-008	WATER / WATER 4 Mar 2005 0:00 ES0501668-009	WATER / WATER 4 Mar 2005 0:00 ES0501668-010

93.7	93.6	101	103	97.1
98.2	99.2	95.8	101	95.0



Analytical Results				Client Sample ID :	RINSATE 2		
Sample Matrix Type / Description : Sample Date / Time :				WATER / WATER 4 Mar 2005 0:00			
Laboratory Sample ID :				ES0501668-011			
Analyte	CAS number	LOR	Units				
EA065: Total Hardness as CaCO3							
Total Hardness as CaCO3				1	mg/L	<1	
ED093F: Dissolved Major Cations							
Calcium	7440-70-2	1	mg/L			<1	
Magnesium	7439-95-4	1	mg/L			<1	
EG020T: Total Metals by ICP-MS							
Arsenic	7440-38-2	0.001	mg/L			<0.001	
Cadmium	7440-43-9	0.0001	mg/L			<0.0001	
Copper	7440-50-8	0.001	mg/L			<0.001	
Lead	7439-92-1	0.001	mg/L			<0.001	
Nickel	7440-02-0	0.001	mg/L			0.001	
Zinc	7440-66-6	0.005	mg/L			<0.005	
EG035T: Total Mercury by FIMS							
Mercury	7439-97-6	0.0001	mg/L			<0.0001	
EG050T: Hexavalent Chromium - Total							
Hexavalent Chromium	18540-29-9	0.010	mg/L			# <0.100	
EK055G: Ammonia as N by Discrete Analyser							
Ammonia as N	7664-41-7	0.010	mg/L			0.010	
EK059G: NOX as N by Discrete Analyser							
Nitrite + Nitrate as N		0.010	mg/L			<0.010	
EK061: Total Kjeldahl Nitrogen (TKN)							
Total Kjeldahl Nitrogen as N		0.1	mg/L			<0.1	
EK062: Total Nitrogen as N (TKN + NOx)							
Total Nitrogen as N		0.1	mg/L			<0.1	
EP005: Total Organic Carbon (TOC)							
Total Organic Carbon		1	mg/L			<1	
EP026: Chemical Oxygen Demand (COD)							
Chemical Oxygen Demand		5	mg/L			<5	
EP030: Biochemical Oxygen Demand (BOD)							
Biochemical Oxygen Demand		2	mg/L			<2	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Naphthalene	91-20-3	1.0	µg/L			<1.0	
Acenaphthylene	208-96-8	1.0	µg/L			<1.0	
Acenaphthene	83-32-9	1.0	µg/L			<1.0	
Fluorene	86-73-7	1.0	µg/L			<1.0	
Phenanthrene	85-01-8	1.0	µg/L			<1.0	
Anthracene	120-12-7	1.0	µg/L			<1.0	

A. Garbani Brothers Limited Company

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Client Sample ID :				RINSATE 2					
Sample Matrix Type / Description :				WATER / WATER					
Sample Date / Time :				4 Mar 2005					
Laboratory Sample ID :				ES0501668-011					
Analyte	CAS number	LOR	Units						
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Fluoranthene	206-44-0	1.0	µg/L	<1.0					
Pyrene	129-00-0	1.0	µg/L	<1.0					
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0					
Chrysene	218-01-9	1.0	µg/L	<1.0					
Benzo(b)fluoranthene	205-99-2	1.0	µg/L	<1.0					
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0					
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5					
Indeno(1,2,3-cd)pyrene	193-39-5	1.0	µg/L	<1.0					
Dibenz(a,h)anthracene	53-70-3	1.0	µg/L	<1.0					
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L	<1.0					
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction		20	µg/L	<20					
C10 - C14 Fraction		50	µg/L	<50					
C15 - C28 Fraction		100	µg/L	<100					
C29 - C36 Fraction		50	µg/L	<50					
EP080: BTEX									
Benzene	71-43-2	1	µg/L	<1					
Toluene	108-88-3	2	µg/L	<2					
Ethylbenzene	100-41-4	2	µg/L	<2					
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2					
ortho-Xylene	95-47-6	2	µg/L	<2					
EP075(SIM)S: Phenolic Compound Surrogates									
2-Fluorophenol	367-12-4	0.1	%	54.1					
Phenol-d6	13127-88-3	0.1	%	32.2					
2-Chlorophenol-D4	93951-73-6	0.1	%	68.2					
2,4,6-Tribromophenol	118-79-6	0.1	%	60.4					
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.1	%	61.9					
Anthracene-d10	1719-06-8	0.1	%	61.0					
4-Terphenyl-d14	1718-51-0	0.1	%	61.9					
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	101					
Toluene-D8	2037-26-5	0.1	%	97.5					
4-Bromofluorobenzene	460-00-4	0.1	%	96.4					