



ALS Environmental

Client : SINCLAIR KNIGHT MERZ
Project : ENO1669

Work Order : ES0501569
ALS Quote Reference : SY/221/04

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Issue Date : 11 Mar 2005

Matrix Type: WATER

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

Analyte name	LOR	Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery LCS	Dynamic Recovery Limits	High
			µg/L	%	Low	%
EP075A: Phenolic Compounds						
EP075A: Phenolic Compounds - (QC Lot: 48758)						
2,4-Dichlorophenol	2 µg/L	---	5	79.3	60	113
	2 µg/L	<2	---	---	---	---
2,6-Dichlorophenol	2 µg/L	---	5	90.5	57	121
	2 µg/L	<2	---	---	---	---
4-Chloro-3-Methylphenol	2 µg/L	---	5	91.6	52	122
	2 µg/L	<2	---	---	---	---
2,4,6-Trichlorophenol	2 µg/L	---	5	88.0	53	121
	2 µg/L	<2	---	---	---	---
2,4,5-Trichlorophenol	2 µg/L	---	5	85.9	46	126
	2 µg/L	<2	---	---	---	---
Pentachlorophenol	4 µg/L	---	10	34.8	4	101
	4 µg/L	<4	---	---	---	---

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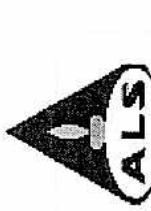
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Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	LOR	Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery LCS	Dynamic Recovery Limits	High
			µg/L	%	Low	%
EP075B: Polynuclear Aromatic Hydrocarbons						
EP075B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 48039)						
Naphthalene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	78.9	63	111
2-Methylnaphthalene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	80.3	58	119
2-Chloronaphthalene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	81.3	58	120
Acenaphthylene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	84.0	59	120
Acenaphthene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	81.1	67	116
Fluorene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	81.6	67	112
Phenanthrene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	80.0	68	107
Anthracene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	81.8	68	110
Fluoranthene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	80.2	67	107
Pyrene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	80.6	64	109
N-2-Fluorenyl Acetamide	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	79.9	60	109
Benz(a)anthracene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	76.4	63	112
Chrysene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	78.8	65	115
Benzo(b) & Benzo(k)fluoranthene	4 µg/L	<4	---	---	---	---
	4 µg/L	---	10	83.2	60	118
7,12-Dimethylbenz(a)anthracene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	79.8	39	107
Benzo(a)pyrene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	76.0	64	115
3-Methylcholanthrene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	80.0	50	105
Indeno(1,2,3-cd)pyrene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	77.5	55	103
Dibenz(a,h)anthracene	2 µg/L	<2	---	---	---	---



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

Analyte name	LOR	Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery LCS	Dynamic Recovery Limits	High
EP075B: Polynuclear Aromatic Hydrocarbons						
EP075B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 48039)						
Dibenz(a,h)anthracene	2 µg/L	µg/L	µg/L	%	%	%
Benzo(g,h,i)perylene	2 µg/L	<2	5	79.1	54	105
	2 µg/L	---	---	---	---	---
		---	5	83.1	55	105
EP075B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 48758)						
Naphthalene	2 µg/L	µg/L	µg/L	%	%	%
	2 µg/L	---	5	93.2	63	111
	2 µg/L	<2	---	---	---	---
2-Methylnaphthalene	2 µg/L	---	5	92.3	58	119
	2 µg/L	<2	---	---	---	---
2-Chloronaphthalene	2 µg/L	---	5	90.2	58	120
	2 µg/L	<2	---	---	---	---
Acenaphthylene	2 µg/L	---	5	91.3	59	120
	2 µg/L	<2	---	---	---	---
Acenaphthene	2 µg/L	---	5	89.8	67	116
	2 µg/L	<2	---	---	---	---
Fluorene	2 µg/L	---	5	85.8	67	112
	2 µg/L	<2	---	---	---	---
Phenanthrene	2 µg/L	---	5	92.6	68	107
	2 µg/L	<2	---	---	---	---
Anthracene	2 µg/L	---	5	92.8	68	110
	2 µg/L	<2	---	---	---	---
Fluoranthene	2 µg/L	---	5	89.2	67	107
	2 µg/L	<2	---	---	---	---
Pyrene	2 µg/L	---	5	89.3	64	109
	2 µg/L	<2	---	---	---	---
N-2-Fluorenyl Acetamide	2 µg/L	---	5	85.4	60	109
	2 µg/L	<2	---	---	---	---
Benzo(a)anthracene	2 µg/L	---	5	89.3	63	112
	2 µg/L	<2	---	---	---	---
Chrysene	2 µg/L	---	5	87.1	65	115
	2 µg/L	<2	---	---	---	---
Benzo(b) & Benzo(k)fluoranthene	4 µg/L	---	10	84.2	60	118
	4 µg/L	<4	---	---	---	---
7,12-Dimethylbenz(a)anthracene	2 µg/L	---	5	82.6	39	107
	2 µg/L	<2	---	---	---	---
Benzo(a)pyrene	2 µg/L	---	5	83.6	64	115
	2 µg/L	<2	---	---	---	---
3-Methylcholanthrene	2 µg/L	---	5	87.8	50	105

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Matrix Type: WATER

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

Analyte name		LOR	Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery	Low	High	
			LCS				
EP075B: Polynuclear Aromatic Hydrocarbons							
EP075B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 48758)							
3-Methylcholanthrene	2 µg/L	<2	µg/L	%	%	%	
Indeno(1,2,3.cd)pyrene	2 µg/L	---	5	80.7	---	103	
Dibenz(a,h)anthracene	2 µg/L	<2	---	---	---	---	
	2 µg/L	---	5	79.2	---	105	
	2 µg/L	<2	---	---	---	---	
Benzo(g,h,i)perylene	2 µg/L	---	5	82.8	---	105	
	2 µg/L	<2	---	---	---	---	
EP075C: Phthalate Esters							
EP075C: Phthalate Esters - (QC Lot: 48039)							
Dimethyl phthalate	2 µg/L	<2	µg/L	%	%	%	
	2 µg/L	---	5	83.7	---	122	
Diethyl phthalate	2 µg/L	<2	---	---	---	---	
	2 µg/L	---	5	88.4	---	117	
Di-n-butyl phthalate	2 µg/L	<2	---	---	---	---	
	2 µg/L	---	5	82.8	---	115	
Butyl benzyl phthalate	2 µg/L	<2	---	---	---	---	
	2 µg/L	---	5	81.2	---	112	
bis(2-ethylhexyl) phthalate	20 µg/L	<20	---	---	---	---	
	20 µg/L	---	5	86.7	---	119	
Di-n-octylphthalate	2 µg/L	<2	---	---	---	---	
	2 µg/L	---	5	83.1	---	110	
EP075C: Phthalate Esters - (QC Lot: 48758)							
Dimethyl phthalate	2 µg/L	---	µg/L	%	%	%	
	2 µg/L	<2	5	90.7	---	122	
Diethyl phthalate	2 µg/L	<2	---	---	---	---	
	2 µg/L	---	5	89.4	---	117	
Di-n-butyl phthalate	2 µg/L	---	5	99.1	---	115	
	2 µg/L	<2	---	---	---	---	
Butyl benzyl phthalate	2 µg/L	<2	---	---	---	---	
	2 µg/L	---	5	92.1	---	112	
bis(2-ethylhexyl) phthalate	20 µg/L	---	5	98.8	---	119	
	20 µg/L	<20	---	---	---	---	
Di-n-octylphthalate	2 µg/L	---	5	88.4	---	110	
	2 µg/L	<2	---	---	---	---	



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

Analyte name	LOR	Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery LCS	Dynamic Recovery Limits Low	High
EP075D: Nitrosamines						
EP075D: Nitrosamines - (QC Lot: 48039)						
N-Nitrosomethylethylamine	2 µg/L	<2	µg/L	%	%	%
	2 µg/L	---	5	93.3	50	125
N-Nitrosodiethylamine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	82.7	65	118
N-Nitrosopyrrolidine	4 µg/L	<4	---	---	---	---
	4 µg/L	---	5	62.6	23	99
N-Nitrosomorpholine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	79.0	31	109
N-Nitrosodi-n-propylamine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	84.8	69	112
N-Nitrosopiperidine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	80.3	72	105
N-Nitrosodibutylamine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	89.5	67	111
N-Nitrosodiphenyl & Diphenylamine	4 µg/L	<4	---	---	---	---
	4 µg/L	---	10	85.0	64	124
Methapyrilene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	63.8	11	148
EP075D: Nitrosamines - (QC Lot: 48758)						
N-Nitrosomethylethylamine	2 µg/L	---	µg/L	%	%	%
	2 µg/L	<2	5	76.1	50	125
N-Nitrosodiethylamine	2 µg/L	---	---	---	---	---
	2 µg/L	---	5	80.5	65	118
N-Nitrosopyrrolidine	4 µg/L	<2	---	---	---	---
	4 µg/L	---	5	67.7	23	99
N-Nitrosomorpholine	2 µg/L	<4	---	---	---	---
	2 µg/L	---	5	62.2	31	109
N-Nitrosodi-n-propylamine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	84.4	69	112
N-Nitrosopiperidine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	79.1	72	105
N-Nitrosodibutylamine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	91.6	67	111
N-Nitrosodiphenyl & Diphenylamine	4 µg/L	<2	---	---	---	---
	4 µg/L	---	10	90.0	64	124
Methapyrilene	2 µg/L	<4	---	---	---	---
	2 µg/L	---	5	31.2	11	148
	2 µg/L	<2	---	---	---	---



Matrix Type: WATER

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

Analyte name		Method blank result	Actual Results		Recovery Limits	
LOR			Spike concentration	Spike Recovery LCS	Low	High
EP075E: Nitroaromatics and Ketones						
EP075E: Nitroaromatics and Ketones - (QC Lot: 48039)						
2-Picoline	2 µg/L	<2	µg/L	%	%	%
	2 µg/L	---	5	65.7	16	128
Acetophenone	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	87.0	74	112
Nitrobenzene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	92.2	79	110
Isophorone	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	86.2	78	108
2,6-Dinitrotoluene	4 µg/L	<4	---	---	---	---
	4 µg/L	---	5	82.0	58	121
2,4-Dinitrotoluene	4 µg/L	<4	---	---	---	---
	4 µg/L	---	5	75.4	59	125
1-Naphthylamine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	77.7	49	109
4-Nitroquinoline-N-oxide	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	38.9	9	124
5-Nitro-o-toluidine	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	82.9	56	122
Azobenzene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	81.6	73	110
1,3,5-Trinitrobenzene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	90.1	46	125
Phenacetin	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	84.0	62	104
4-Aminobiphenyl	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	76.8	23	123
Pentachloronitrobenzene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	83.7	63	112
Pronamide	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	81.6	57	114
Dimethylaminoazobenzene	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	77.2	62	109
Chlorobenzilate	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	84.0	62	114
EP075E: Nitroaromatics and Ketones - (QC Lot: 48758)						
2-Picoline	2 µg/L	µg/L	%	%	%	%
	2 µg/L	---	5	52.9	16	128
		<2	---	---	---	---

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

Analyte name	LOR	Method blank result	Actual Results		Spike Recovery		Recovery Limits	
			Spike concentration		LCS	Low	High	
EP075E: Nitroaromatics and Ketones								
EP075E: Nitroaromatics and Ketones - (QC Lot: 48758)								
Acetophenone	2 µg/L	µg/L	µg/L	%	%	%	%	%
	2 µg/L	<2	5	85.0	74	112		
	2 µg/L	---	---	---	---	---	---	
	2 µg/L	---	---	---	---	---	---	
Nitrobenzene	2 µg/L	---	5	85.9	79	110		
	2 µg/L	<2	---	---	---	---	---	
Isophorone	2 µg/L	---	5	83.7	78	108		
	2 µg/L	<2	---	---	---	---	---	
2,6-Dinitrotoluene	4 µg/L	---	5	85.8	58	121		
	4 µg/L	<4	---	---	---	---	---	
2,4-Dinitrotoluene	4 µg/L	---	5	78.5	59	125		
	4 µg/L	<4	---	---	---	---	---	
	2 µg/L	---	5	78.5	49	109		
	2 µg/L	<2	---	---	---	---	---	
4-Nitroquinoline-N-oxide	2 µg/L	---	5	41.1	9	124		
	2 µg/L	<2	---	---	---	---	---	
5-Nitro-o-toluidine	2 µg/L	---	5	75.1	56	122		
	2 µg/L	<2	---	---	---	---	---	
Azobenzene	2 µg/L	---	5	90.1	73	110		
	2 µg/L	<2	---	---	---	---	---	
1,3,5-Trinitrobenzene	2 µg/L	---	5	77.4	46	125		
	2 µg/L	<2	---	---	---	---	---	
Phenacetin	2 µg/L	---	5	78.4	62	104		
	2 µg/L	<2	---	---	---	---	---	
4-Aminobiphenyl	2 µg/L	---	5	62.5	23	123		
	2 µg/L	<2	---	---	---	---	---	
Pentachloronitrobenzene	2 µg/L	---	5	77.3	63	112		
	2 µg/L	<2	---	---	---	---	---	
Pronamide	2 µg/L	---	5	91.2	57	114		
	2 µg/L	<2	---	---	---	---	---	
Dimethylaminoazobenzene	2 µg/L	---	5	86.4	62	109		
	2 µg/L	<2	---	---	---	---	---	
Chlorobenzilate	2 µg/L	---	5	90.1	62	114		
	2 µg/L	<2	---	---	---	---	---	

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Matrix Type: WATER

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

Analyte name	LOR	Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery LCS	Dynamic Recovery Limits	
					Low	High
EP075F: Haloethers						
EP075F: Haloethers - (QC Lot: 48039)						
Bis(2-chloroethyl) ether	2 µg/L	µg/L	µg/L	%	%	%
	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	91.2	81	111
	2 µg/L	<2	---	---	---	---
Bis(2-chloroethoxy) methane	2 µg/L	---	5	91.1	74	111
	2 µg/L	<2	---	---	---	---
4-Chlorophenyl phenyl ether	2 µg/L	---	5	81.4	67	113
	2 µg/L	<2	---	---	---	---
4-Bromophenyl phenyl ether	2 µg/L	---	5	83.5	63	117
	2 µg/L	<2	---	---	---	---
EP075F: Haloethers - (QC Lot: 48758)						
Bis(2-chloroethyl) ether	2 µg/L	µg/L	µg/L	%	%	%
	2 µg/L	---	5	83.5	81	111
Bis(2-chloroethoxy) methane	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	83.1	74	111
4-Chlorophenyl phenyl ether	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	86.4	67	113
4-Bromophenyl phenyl ether	2 µg/L	<2	---	---	---	---
	2 µg/L	---	5	86.5	63	117
2 µg/L	<2	---	---	---	---	---