

**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 Low	High
EG035F: Dissolved Mercury by FIMS						
EG035F: Dissolved Mercury by FIMS - (QC Lot: 49640)						
Mercury	0.0001 mg/L	mg/L	mg/L	%	%	%
	0.0001 mg/L	<0.0001	----	----	----	----
			0.010	82.1	70	130
EG035F: Dissolved Mercury by FIMS - (QC Lot: 49641)						
Mercury	0.0001 mg/L	mg/L	mg/L	%	%	%
	0.0001 mg/L	<0.0001	----	----	----	----
		----	0.010	95.9	70	130
EG050F: Hexavalent Chromium - Filtered						
EG050F: Hexavalent Chromium - Filtered - (QC Lot: 47321)						
Hexavalent Chromium	0.010 mg/L	mg/L	mg/L	%	%	%
	0.01 mg/L	<0.010	----	----	----	----
		----	0.50	99.7	70	130
EK055G: Ammonia as N by Discrete Analyser						
EK055G: Ammonia as N by Discrete Analyser - (QC Lot: 47439)						
Ammonia as N	0.01 mg/L	mg/L	mg/L	%	%	%
	0.010 mg/L	----	1.00	116	70	130
		<0.010	----	----	----	----
EK059G: NOX as N by Discrete Analyser						
EK059G: NOX as N by Discrete Analyser - (QC Lot: 47331)						
Nitrite + Nitrate as N	0.01 mg/L	mg/L	mg/L	%	%	%
	0.010 mg/L	----	0.96	91.6	70	130
		<0.010	----	----	----	----
EK061: Total Kjeldahl Nitrogen (TKN)						
EK061: Total Kjeldahl Nitrogen (TKN) - (QC Lot: 47830)						
Total Kjeldahl Nitrogen as N	0.1 mg/L	mg/L	mg/L	%	%	%
	0.1 mg/L	<0.1	----	----	----	----
		----	10.0	117	70	130
EP005: Total Organic Carbon (TOC)						
EP005: Total Organic Carbon (TOC) - (QC Lot: 47633)						
Total Organic Carbon	1 mg/L	mg/L	mg/L	%	%	%
	1 mg/L	----	5	89.6	70	130
		<1	----	----	----	----

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Analyte name	LOR	Method blank result	Actual Results		Recovery Limits	
			Spike concentration	Spike Recovery LCS	Dynamic Recovery Limits	
					Low	High
EP026: Chemical Oxygen Demand (COD)						
EP026: Chemical Oxygen Demand (COD) - (QC Lot: 47779)		mg/L	mg/L	%	%	%
Chemical Oxygen Demand	5 mg/L	<5				
	5 mg/L	----	100	108	70	130
	5 mg/L	----	500	104	70	130
EP026: Chemical Oxygen Demand (COD) - (QC Lot: 48044)						
Chemical Oxygen Demand	5 mg/L	mg/L	mg/L	%	%	%
	5 mg/L	<5	----			
	5 mg/L	----	100	104	70	130
	5 mg/L	----	500	96.6	70	130
EP030: Biochemical Oxygen Demand (BOD)						
EP030: Biochemical Oxygen Demand (BOD) - (QC Lot: 47538)		mg/L	mg/L	%	%	%
Biochemical Oxygen Demand	2 mg/L	----	200	89.0	70	130
	2 mg/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	Dynamic Recovery Limits	
EP074A: Monocyclic Aromatic Hydrocarbons					LCS	Low	High
EP074A: Monocyclic Aromatic Hydrocarbons - (QC Lot: 48425)							
Benzene	5 µg/L	µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5		10	102	71	126
Toluene	5 µg/L		<5				
	5 µg/L			10	100	73	123
	5 µg/L	<5					
Ethylbenzene	5 µg/L		<5				
	5 µg/L			10	103	74	126
	5 µg/L	<5					
meta- & para-Xylene	5 µg/L			20	101	45	125
	5 µg/L	<5					
Styrene	5 µg/L			10	101	76	125
	5 µg/L	<5					
ortho-Xylene	5 µg/L			10	103	72	125
	5 µg/L	<5					
Isopropylbenzene	5 µg/L			10	103	75	125
	5 µg/L	<5					
n-Propylbenzene	5 µg/L			10	104	73	123
	5 µg/L	<5					
1,3,5-Trimethylbenzene	5 µg/L			10	103	76	126
	5 µg/L	<5					
sec-Butylbenzene	5 µg/L			10	104	78	124
	5 µg/L	<5					
1,2,4-Trimethylbenzene	5 µg/L			10	101	74	123
	5 µg/L	<5					
tert-Butylbenzene	5 µg/L			10	105	72	123
	5 µg/L	<5					
p-Isopropyltoluene	5 µg/L			10	102	76	126
	5 µg/L	<5					
n-Butylbenzene	5 µg/L			10	100	75	128
	5 µg/L	<5					

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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 Low	High
EP074B: Oxygenated Compounds						
EP074B: Oxygenated Compounds - (QC Lot: 48425)						
Vinyl Acetate	50 µg/L	µg/L	µg/L	%	%	%
	50 µg/L	<50	100	104	70	125
2-Butanone (MEK)	50 µg/L	µg/L	µg/L	104	70	130
	50 µg/L	<50	100	97.4	70	130
4-Methyl-2-pentanone (MIBK)	50 µg/L	µg/L	µg/L	98.1	72	125
	50 µg/L	<50	100	104	70	125
2-Hexanone (MBK)	50 µg/L	µg/L	µg/L	104	70	125
	50 µg/L	<50	100	104	70	125
EP074C: Sulfonated Compounds						
EP074C: Sulfonated Compounds - (QC Lot: 48425)						
Carbon disulfide	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	104	76	126
EP074D: Fumigants						
EP074D: Fumigants - (QC Lot: 48425)						
2,2-Dichloropropane	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	112	76	126
1,2-Dichloropropane	5 µg/L	µg/L	µg/L	101	76	126
	5 µg/L	<5	20	96.2	72	125
cis-1,3-Dichloropropylene	5 µg/L	µg/L	µg/L	94.3	73	128
	5 µg/L	<5	20	100	72	126
trans-1,3-Dichloropropylene	5 µg/L	µg/L	µg/L	100	72	126
	5 µg/L	<5	10	100	72	126
1,2-Dibromoethane (EDB)	5 µg/L	µg/L	µg/L	100	72	126



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
EP074E: Halogenated Aliphatic Compounds						
EP074E: Halogenated Aliphatic Compounds - (QC Lot: 48425)						
Dichlorodifluoromethane	50 µg/L	µg/L	µg/L	%	%	%
	50 µg/L	<50	100	116	70	129
Chloromethane	50 µg/L	µg/L	100	109	76	118
	50 µg/L	<50	100	---	---	---
Vinyl chloride	50 µg/L	µg/L	100	113	70	126
	50 µg/L	<50	100	---	---	---
Bromomethane	50 µg/L	µg/L	100	102	71	123
	50 µg/L	<50	100	---	---	---
Chloroethane	50 µg/L	µg/L	100	104	76	120
	50 µg/L	<50	100	---	---	---
Trichlorofluoromethane	50 µg/L	µg/L	100	106	76	126
	50 µg/L	<50	100	---	---	---
1,1-Dichloroethene	5 µg/L	µg/L	10	104	76	125
	5 µg/L	<5	10	---	---	---
Iodomethane	5 µg/L	µg/L	10	115	70	129
	5 µg/L	<5	10	---	---	---
trans-1,2-Dichloroethene	5 µg/L	µg/L	10	102	76	126
	5 µg/L	<5	10	---	---	---
1,1-Dichloroethane	5 µg/L	µg/L	10	100	80	126
	5 µg/L	<5	10	---	---	---
cis-1,2-Dichloroethene	5 µg/L	µg/L	10	103	72	126
	5 µg/L	<5	10	---	---	---
1,1,1-Trichloroethane	5 µg/L	µg/L	10	98.4	73	126
	5 µg/L	<5	10	---	---	---
1,1-Dichloropropylene	5 µg/L	µg/L	10	107	74	126
	5 µg/L	<5	10	---	---	---
Carbon Tetrachloride	5 µg/L	µg/L	10	97.4	76	126
	5 µg/L	<5	10	---	---	---
1,2-Dichloroethane	5 µg/L	µg/L	10	95.6	75	123
	5 µg/L	<5	10	---	---	---
Trichloroethene	5 µg/L	µg/L	10	103	74	124
	5 µg/L	<5	10	---	---	---
Dibromomethane	5 µg/L	µg/L	10	87.6	73	125
	5 µg/L	<5	10	---	---	---
1,1,2-Trichloroethane	5 µg/L	µg/L	10	96.7	75	120
	5 µg/L	<5	10	---	---	---
1,3-Dichloropropane	5 µg/L	µg/L	10	98.7	76	120
	5 µg/L	<5	10	---	---	---

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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	Low	High	
EP074E: Halogenated Aliphatic Compounds							
EP074E: Halogenated Aliphatic Compounds - (QC Lot: 48425)							
1,3-Dichloropropane	5 µg/L		<5	µg/L	%	%	
Tetrachloroethene	5 µg/L		---	10	105	78	
	5 µg/L		<5	---	---	---	
1,1,1,2-Tetrachloroethane	5 µg/L		---	10	97.8	76	
	5 µg/L		<5	---	---	---	
trans-1,4-Dichloro-2-butene	5 µg/L		---	10	102	76	
	5 µg/L		<5	---	---	---	
cis-1,4-Dichloro-2-butene	5 µg/L		---	10	84.7	75	
	5 µg/L		<5	---	---	---	
1,1,2,2-Tetrachloroethane	5 µg/L		---	10	98.6	73	
	5 µg/L		<5	---	---	---	
1,2,3-Trichloropropane	5 µg/L		---	10	98.7	76	
	5 µg/L		<5	---	---	---	
Pentachloroethane	5 µg/L		---	10	102	75	
	5 µg/L		<5	---	---	---	
1,2-Dibromo-3-chloropropane	5 µg/L		---	10	97.5	72	
	5 µg/L		<5	---	---	---	
Hexachlorobutadiene	5 µg/L		---	10	98.5	76	
	5 µg/L		<5	---	---	---	



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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 Low	High
EP074F: Halogenated Aromatic Compounds						
EP074F: Halogenated Aromatic Compounds - (QC Lot: 48425)						
Chlorobenzene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	100	72	125
Bromobenzene	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	101	71	126
2-Chlorotoluene	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	103	70	128
4-Chlorotoluene	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	98.8	75	123
1,3-Dichlorobenzene	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	101	74	126
1,4-Dichlorobenzene	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	98.6	75	128
1,2-Dichlorobenzene	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	99.4	75	126
1,2,4-Trichlorobenzene	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	99.1	74	124
1,2,3-Trichlorobenzene	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	99.0	74	123
	5 µg/L	<5	---	---	---	---
EP074G: Trihalomethanes						
EP074G: Trihalomethanes - (QC Lot: 48425)						
Chloroform	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10			
Bromodichloromethane	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	97.5	72	127
Dibromochloromethane	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	90.0	74	125
Bromoform	5 µg/L	µg/L	µg/L			
	5 µg/L	<5	10	93.8	75	126
	5 µg/L	<5	10	96.0	72	126
	5 µg/L	<5	---	---	---	---
EP074H: Naphthalene						
EP074H: Naphthalene - (QC Lot: 48425)						
Naphthalene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	101	73	125
	5 µg/L	<5	---	---	---	---



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
EP075A: Phenolic Compounds							
EP075A: Phenolic Compounds - (QC Lot: 48039)							
Phenol	2 µg/L	<2	µg/L	%	%	%	%
	2 µg/L	---	5	48.2	21	69	---
2-Chlorophenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	83.7	63	115	---
2-Methylphenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	88.9	48	109	---
3- & 4-Methylphenol	4 µg/L	<4	---	---	---	---	---
	4 µg/L	---	10	71.5	35	103	---
2-Nitrophenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	82.5	62	113	---
2,4-Dimethylphenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	85.9	46	123	---
2,4-Dichlorophenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	83.7	60	113	---
2,6-Dichlorophenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	84.4	57	121	---
4-Chloro-3-Methylphenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	81.0	52	122	---
2,4,6-Trichlorophenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	83.6	53	121	---
2,4,5-Trichlorophenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	85.5	46	126	---
Pentachlorophenol	4 µg/L	<4	---	---	---	---	---
	4 µg/L	---	10	89.2	4	101	---
EP075A: Phenolic Compounds - (QC Lot: 48758)							
Phenol	2 µg/L	---	µg/L	%	%	%	%
	2 µg/L	<2	5	47.5	21	69	---
2-Chlorophenol	2 µg/L	---	---	---	---	---	---
	2 µg/L	---	5	81.0	63	115	---
2-Methylphenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	77.8	48	109	---
3- & 4-Methylphenol	2 µg/L	<2	---	---	---	---	---
	4 µg/L	---	10	69.3	35	103	---
2-Nitrophenol	2 µg/L	<4	---	---	---	---	---
	2 µg/L	---	5	81.2	62	113	---
2,4-Dimethylphenol	2 µg/L	<2	---	---	---	---	---
	2 µg/L	---	5	77.0	46	123	---
	2 µg/L	<2	---	---	---	---	---