



Client : SINCLAIR KNIGHT MERZ
Project : - Not provided -

Work Order : ES0501612
ALS Quote Reference : ----

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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
EG035F: Dissolved Mercury by FIMS						
EG035F: Dissolved Mercury by FIMS - (QC Lot: 49642)		mg/L	mg/L	%	%	%
Mercury	0.0001 mg/L	----	0.010	97.5	70	130
	0.0001 mg/L	<0.0001	----	----	----	----
EG035F: Dissolved Mercury by FIMS - (QC Lot: 51448)						
Mercury	0.0001 mg/L	mg/L	mg/L	%	%	%
	0.0001 mg/L	<0.0001	----	----	----	----
	0.0001 mg/L	----	0.010	83.2	70	130
EG050F: Hexavalent Chromium - Filtered						
EG050F: Hexavalent Chromium - Filtered - (QC Lot: 48183)		mg/L	mg/L	%	%	%
Hexavalent Chromium	1.00 mg/L	<1.00	----	----	----	----
	1 mg/L	----	50	107	70	130
EK055G: Ammonia as N by Discrete Analyser						
EK055G: Ammonia as N by Discrete Analyser - (QC Lot: 49081)		mg/L	mg/L	%	%	%
Ammonia as N	0.010 mg/L	<0.010	----	----	----	----
	0.01 mg/L	----	1.00	115	70	130
EK059G: NOX as N by Discrete Analyser						
EK059G: NOX as N by Discrete Analyser - (QC Lot: 48198)		mg/L	mg/L	%	%	%
Nitrite + Nitrate as N	0.010 mg/L	<0.010	----	----	----	----
	0.01 mg/L	----	0.96	109	70	130
EK061: Total Kjeldahl Nitrogen (TKN)						
EK061: Total Kjeldahl Nitrogen (TKN) - (QC Lot: 48379)		mg/L	mg/L	%	%	%
Total Kjeldahl Nitrogen as N	0.1 mg/L	----	10.0	105	70	130
	0.1 mg/L	<0.1	----	----	----	----
EK061: Total Kjeldahl Nitrogen (TKN) - (QC Lot: 48381)		mg/L	mg/L	%	%	%
Total Kjeldahl Nitrogen as N	0.1 mg/L	<0.1	----	----	----	----
	0.1 mg/L	----	10.0	104	70	130
EP005: Total Organic Carbon (TOC)						
EP005: Total Organic Carbon (TOC) - (QC Lot: 48111)		mg/L	mg/L	%	%	%
Total Organic Carbon	1 mg/L	----	100	109	70	130
	1 mg/L	<1	----	----	----	----
EP026: Chemical Oxygen Demand (COD)						
EP026: Chemical Oxygen Demand (COD) - (QC Lot: 49592)		mg/L	mg/L	%	%	%
Chemical Oxygen Demand	5 mg/L	<5	----	----	----	----
	5 mg/L	----	100	100	70	130
	5 mg/L	----	500	100	70	130



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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	Low	High
EP030: Biochemical Oxygen Demand (BOD)							
EP030: Biochemical Oxygen Demand (BOD) - (QC Lot: 48143)		2 mg/L	mg/L	%	%	%	
Biochemical Oxygen Demand		2 mg/L	200	93.5	70	130	
			----	----	----	----	
EP074A: Monocyclic Aromatic Hydrocarbons							
EP074A: Monocyclic Aromatic Hydrocarbons - (QC Lot: 49205)			µg/L	%	%	%	
Benzene		5 µg/L	10	101	71	126	
		5 µg/L	----	----	----	----	
Toluene		5 µg/L	10	107	73	123	
		5 µg/L	----	----	----	----	
Ethylbenzene		5 µg/L	10	103	74	126	
		5 µg/L	----	----	----	----	
meta- & para-Xylene		5 µg/L	20	103	45	125	
		5 µg/L	----	----	----	----	
Styrene		5 µg/L	10	106	76	125	
		5 µg/L	----	----	----	----	
ortho-Xylene		5 µg/L	10	104	72	125	
		5 µg/L	----	----	----	----	
Isopropylbenzene		5 µg/L	10	104	75	125	
		5 µg/L	----	----	----	----	
n-Propylbenzene		5 µg/L	10	101	73	123	
		5 µg/L	----	----	----	----	
1,3,5-Trimethylbenzene		5 µg/L	10	103	76	126	
		5 µg/L	----	----	----	----	
sec-Butylbenzene		5 µg/L	10	107	78	124	
		5 µg/L	----	----	----	----	
1,2,4-Trimethylbenzene		5 µg/L	10	105	74	123	
		5 µg/L	----	----	----	----	
tert-Butylbenzene		5 µg/L	10	99.7	72	123	
		5 µg/L	----	----	----	----	
p-Isopropyltoluene		5 µg/L	10	97.8	76	126	
		5 µg/L	----	----	----	----	
n-Butylbenzene		5 µg/L	10	99.7	75	128	
		5 µg/L	----	----	----	----	



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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: 49205)							
Vinyl Acetate		50 µg/L	µg/L	%	%	%	
		50 µg/L	<50	100	102	70	
		50 µg/L	<50	---	---	---	
2-Butanone (MEK)		50 µg/L	<50	100	99.0	70	
		50 µg/L	<50	---	---	---	
4-Methyl-2-pentanone (MIBK)		50 µg/L	---	100	106	70	
		50 µg/L	<50	---	---	---	
2-Hexanone (MBK)		50 µg/L	---	100	102	72	
		50 µg/L	<50	---	---	---	
EP074C: Sulfonated Compounds							
EP074C: Sulfonated Compounds - (QC Lot: 49205)							
Carbon disulfide		5 µg/L	µg/L	%	%	%	
		5 µg/L	10	106	76	126	
		5 µg/L	<5	---	---	---	
EP074D: Fumigants							
EP074D: Fumigants - (QC Lot: 49205)							
2,2-Dichloropropane		5 µg/L	µg/L	%	%	%	
		5 µg/L	<5	113	76	126	
		5 µg/L	<5	---	---	---	
1,2-Dichloropropane		5 µg/L	10	104	76	126	
		5 µg/L	<5	---	---	---	
cis-1,3-Dichloropropylene		5 µg/L	20	105	72	125	
		5 µg/L	<5	---	---	---	
trans-1,3-Dichloropropylene		5 µg/L	20	106	73	128	
		5 µg/L	<5	---	---	---	
1,2-Dibromoethane (EDB)		5 µg/L	10	109	72	126	
		5 µg/L	<5	---	---	---	



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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
EP074E: Halogenated Aliphatic Compounds						
EP074E: Halogenated Aliphatic Compounds - (QC Lot: 49205)						
Dichlorodifluoromethane	50 µg/L	µg/L	µg/L	%	%	%
	50 µg/L	---	100	106	70	129
Chloromethane	50 µg/L	<50	---	---	---	---
	50 µg/L	---	100	108	76	118
Vinyl chloride	50 µg/L	<50	---	---	---	---
	50 µg/L	---	100	116	70	126
	50 µg/L	<50	---	---	---	---
Bromomethane	50 µg/L	---	100	107	71	123
	50 µg/L	<50	---	---	---	---
Chloroethane	50 µg/L	---	100	109	76	120
	50 µg/L	<50	---	---	---	---
Trichlorofluoromethane	50 µg/L	---	100	89.1	76	126
	50 µg/L	<50	---	---	---	---
1,1-Dichloroethene	5 µg/L	---	10	106	76	125
	5 µg/L	<5	---	---	---	---
Iodomethane	5 µg/L	---	10	107	70	129
	5 µg/L	<5	---	---	---	---
trans-1,2-Dichloroethene	5 µg/L	---	10	107	76	126
	5 µg/L	<5	---	---	---	---
1,1-Dichloroethane	5 µg/L	---	10	103	80	126
	5 µg/L	<5	---	---	---	---
cis-1,2-Dichloroethene	5 µg/L	---	10	101	72	126
	5 µg/L	<5	---	---	---	---
1,1,1-Trichloroethane	5 µg/L	---	10	105	73	126
	5 µg/L	<5	---	---	---	---
1,1-Dichloropropylene	5 µg/L	---	10	104	74	126
	5 µg/L	<5	---	---	---	---
Carbon Tetrachloride	5 µg/L	---	10	105	76	126
	5 µg/L	<5	---	---	---	---
1,2-Dichloroethane	5 µg/L	---	10	115	75	123
	5 µg/L	<5	---	---	---	---
Trichloroethene	5 µg/L	---	10	105	74	124
	5 µg/L	<5	---	---	---	---
Dibromomethane	5 µg/L	---	10	102	73	125
	5 µg/L	<5	---	---	---	---
1,1,2-Trichloroethane	5 µg/L	---	10	105	75	120
	5 µg/L	<5	---	---	---	---
1,3-Dichloropropane	5 µg/L	---	10	103	76	120



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	Dynamic Recovery Limits Low	High
EP074E: Halogenated Aliphatic Compounds						
EP074E: Halogenated Aliphatic Compounds - (QC Lot: 49205)						
1,3-Dichloropropane	5 µg/L	<5	µg/L	%	%	%
	5 µg/L	----	10	103	78	125
Tetrachloroethene	5 µg/L	<5	----	----	----	----
	5 µg/L	----	10	102	76	124
1,1,1,2-Tetrachloroethane	5 µg/L	<5	----	----	----	----
	5 µg/L	----	10	93.4	76	126
trans-1,4-Dichloro-2-butene	5 µg/L	<5	----	----	----	----
	5 µg/L	----	10	116	75	125
cis-1,4-Dichloro-2-butene	5 µg/L	<5	----	----	----	----
	5 µg/L	----	10	102	73	124
1,1,2,2-Tetrachloroethane	5 µg/L	<5	----	----	----	----
	5 µg/L	----	10	96.1	76	123
1,2,3-Trichloropropane	5 µg/L	<5	----	----	----	----
	5 µg/L	----	10	108	75	126
Pentachloroethane	5 µg/L	<5	----	----	----	----
	5 µg/L	----	10	101	72	122
1,2-Dibromo-3-chloropropane	5 µg/L	<5	----	----	----	----
	5 µg/L	----	10	107	76	124
Hexachlorobutadiene	5 µg/L	<5	----	----	----	----
	5 µg/L	----	----	----	----	----



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
EP074F: Halogenated Aromatic Compounds						
EP074F: Halogenated Aromatic Compounds - (QC Lot: 49205)						
Chlorobenzene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	104	72	125
Bromobenzene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	104	71	126
2-Chlorotoluene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	101	70	128
4-Chlorotoluene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	105	75	123
1,3-Dichlorobenzene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	97.4	74	126
1,4-Dichlorobenzene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	105	75	128
1,2-Dichlorobenzene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	103	75	126
1,2,4-Trichlorobenzene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	111	74	124
1,2,3-Trichlorobenzene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	101	74	123
EP074G: Trihalomethanes						
EP074G: Trihalomethanes - (QC Lot: 49205)						
Chloroform	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	103	72	127
Bromodichloromethane	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	102	74	125
Dibromochloromethane	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	100	75	126
Bromoform	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	94.4	72	126
EP074H: Naphthalene						
EP074H: Naphthalene - (QC Lot: 49205)						
Naphthalene	5 µg/L	µg/L	µg/L	%	%	%
	5 µg/L	<5	10	106	73	125

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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
EP075A: Phenolic Compounds							
EP075A: Phenolic Compounds - (QC Lot: 48758)							
Phenol	2 µg/L	µg/L	µg/L	%	%	%	
	2 µg/L	<2	5	47.5	21	69	
	2 µg/L	---	---	---	---	---	
2-Chlorophenol	2 µg/L	---	5	81.0	63	115	
	2 µg/L	<2	---	---	---	---	
2-Methylphenol	2 µg/L	---	5	77.8	48	109	
	2 µg/L	---	---	---	---	---	
3- & 4-Methylphenol	4 µg/L	---	10	69.3	35	103	
	4 µg/L	<4	---	---	---	---	
2-Nitrophenol	2 µg/L	<2	---	---	---	---	
	2 µg/L	---	5	81.2	62	113	
2,4-Dimethylphenol	2 µg/L	---	5	77.0	46	123	
	2 µg/L	<2	---	---	---	---	
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	<2	---	---	---	---	
	2 µg/L	---	5	85.9	46	126	
Pentachlorophenol	4 µg/L	---	10	34.8	4	101	
	4 µg/L	<4	---	---	---	---	



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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	
EP075B: Polynuclear Aromatic Hydrocarbons								
EP075B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 48758)								
Naphthalene	2 µg/L	---	5	93.2	---	63	---	111
2-Methylnaphthalene	2 µg/L	<2	---	---	---	---	---	---
2-Chloronaphthalene	2 µg/L	---	5	92.3	---	58	---	119
Acenaphthylene	2 µg/L	<2	---	---	---	---	---	---
Acenaphthene	2 µg/L	---	5	90.2	---	58	---	120
Fluorene	2 µg/L	<2	---	---	---	---	---	---
Phenanthrene	2 µg/L	---	5	91.3	---	59	---	120
Anthracene	2 µg/L	<2	---	---	---	---	---	---
Fluoranthene	2 µg/L	---	5	89.8	---	67	---	116
Pyrene	2 µg/L	<2	---	---	---	---	---	---
N-2-Fluorenyl Acetamide	2 µg/L	---	5	85.8	---	67	---	112
Benz(a)anthracene	2 µg/L	<2	---	---	---	---	---	---
Chrysene	2 µg/L	---	5	92.6	---	68	---	107
Benzo(b) & Benzo(k)fluoranthene	2 µg/L	<2	---	---	---	---	---	---
7,12-Dimethylbenz(a)anthracene	2 µg/L	---	5	92.8	---	68	---	110
Benzo(a)pyrene	2 µg/L	<2	---	---	---	---	---	---
3-Methylcholanthrene	2 µg/L	---	5	89.2	---	67	---	107
Indeno(1,2,3-cd)pyrene	2 µg/L	<2	---	---	---	---	---	---
Dibenz(a,h)anthracene	2 µg/L	---	5	89.3	---	64	---	109
	2 µg/L	<2	---	---	---	---	---	---
	2 µg/L	---	5	85.4	---	60	---	109
	2 µg/L	<2	---	---	---	---	---	---
	2 µg/L	---	5	89.3	---	63	---	112
	2 µg/L	<2	---	---	---	---	---	---
	2 µg/L	---	5	87.1	---	65	---	115
	2 µg/L	<2	---	---	---	---	---	---
	2 µg/L	---	10	84.2	---	60	---	118
	2 µg/L	<4	---	---	---	---	---	---
	2 µg/L	---	5	82.6	---	39	---	107
	2 µg/L	<2	---	---	---	---	---	---
	2 µg/L	---	5	83.6	---	64	---	115
	2 µg/L	<2	---	---	---	---	---	---
	2 µg/L	---	5	87.8	---	50	---	105
	2 µg/L	<2	---	---	---	---	---	---
	2 µg/L	---	5	80.7	---	55	---	103
	2 µg/L	<2	---	---	---	---	---	---
	2 µg/L	---	5	79.2	---	54	---	105